HIM MINE The Mining Journal OMMERCIAL GAZETTE.

forming a complete record of the proceedings of all public companies.

No. 736,---Vol. XIX.]

LONDON, SATURDAY, SEPTEMBER 29, 1849.

PRICE 6D.

biannaries of Cornwall-In the Vice-Warden's Court.

KITTO v. ROWE

WHEREAS the VICE - WARDEN did, by an ORDER, or DECREE, made in the above-mentioned consolidated causes, and bearing date he sits day of August last, Order and Decree that a SALE be made of the LEAD and LEAD ORES, and (if necessary) the ENGINES, MACHINERY, and MATERIALS upon and belonging to UBBERT SILVER-LEAD MINES, in the parish of CUBERT, within the said Staumaries, under the dissertion of the Resistance of this Communities.

auch has should be applied by the said order or Decree, a PUBLIC AUCTION
of the ready given, that, pursuant to the said order or Decree, a PUBLIC AUCTION
HELD as CUBERT SILVER-LEAD MINES aforesaid, on Tuesday, the 16th day
ser next, at Elevan o'clock in the forenoon, for SELLING, either together or in

of Cetober next, at Eleven of clock in the forencon, for SELLING, either together or in ote,

MINING MACHINERY AND MATERIALS—VIZ.:

OME 36-inch splinder STEAM-ENGINE, complete, 9-feet stroke in cylinder, 93-feet in shaff, with two good bollers, about 20 tons.

26 fathoms 15-inch pumps, 11 fathoms 1-inch pumps, with H-piece, doorpiece, and rorking barrel, 11 fathoms 1-inch pumps [house water-lift], 7 fathoms 10-inch pumps, 16 fathoms of 4-inch sputher, 10 fathoms of 4-inch explanatorope, 3 whites and taskle, complete, 80 fms, 2-inch pumps, 16 fathoms of 4-inch sputher-ope, 2 4-feet whim pulleys, pair of yokes, 2 pieces of -inch timber-rod, behince-bob, and stand, 9 horse-whim kibbles, iron tram waggon, 12-inch dimber-rod, behince-bob, and stand, 9 horse-whim kibbles, iron tram waggon, it-3-inch man-rod, 5 winze kibbles, shout 3 tens of tram and other from, beam, scales, and weights, 1 40-inch smiths bellows, 1 35-inch and ditto, smiths' tools, a quantity of minors' using stone and frame, force pump, saw frame, 40 fathoms of ladders, timber and carrinding stone and frame, force pump, saw frame, 40 fathoms of ladders, timber and carrinding stone and frame, force pump, saw frame, 40 fathoms of ladders, timber and carrinding stone and frame, force pump, saw frame, 40 fathoms of ladders, timber and carrinding stone and force, burning-house, tanks and soors, 140 fathoms 5-inch launders of menter's shop, 4 wood sheed, wood backing house, dioors, and hatches, isad floors, weighing sheed, and rack, burning-house, tanks and soors, 140 fathoms 5-inch launders of menter's more of the control of the control of the same and soors, and hatches, isad floors, weighing sheed, and rack, burning-house, tanks and shors, 140 fathoms 5-inch launders of the cannot of the control of the

For viewing the same, application may be made to Mr. Teague, at the mine; and for farther particulars (if by letter, pre-paid) to

Mr. GEORGE NICOLLS SIMMONS, Solicitor, Truro.

Dated Registrar's Office, Truro, Sept. 26, 1849.

Mr. GEORGE MICULIS SIMMONS, Solicitor, Truro. Dated Registrar's Office, Truro, Sept. 26, 1849.

WHITWELL COLLIERY.

MR. W. I. BARKER will PEREMPTORILY SELL, BY AUCTION, on Tuesday, October 16, 1849, at Twelve o'clock at noon, for One precisely, at the George Inn, Pilgrim-street, NEWCASTLE-UPON-TINE.

THIRTY-EIGHT (64ths) SHARRS

(iste of Moswa. Andrew White and Richard White) of and in the well-known current-going and most excellent colliery, called the WHITWELL. COLLIERY, situate at WHITWELL, the county of DURHAM, comprising a royally of upwards of 63s acres, or thereshouts, of coal of first-rate quality, there being two seams opened out—the Hutton Seam and Low Main Seam, worked by two pits, and with pitment's houses, workshops, ongines, machinery, and all necessary stock and conveniences for carrying on the colliery on an extensive scale.

The colliery is situate adjoining to and communicating with the main line of the York, Rewcastle, and Benvick Ballway (the Durham and Sunderland Branch whereof is constructed to the bank head), and the coal can be shipped either at the ports of Sunderland or Hartlepool, or on the Hiver Tyne. The convenient sination, high reputation of the coal, and many other advantages of this colliery, afford an excellent opportunity for any one dealrous of an investment in a colliery, and the purchaser of these shares will be entitled to the acting direction and management of the undertaking.

The colliery may be viewed on application to M. Robson, Whitwell Grange, near Durham; and further particulars known on application to Messra. J. J. and G. W. Wright, solicitors, Sunderland.—Sunderland, August 20, 1849.

MINE MATERIALS.

At the LODDISWELL MINE, near KINGSBRIDGE, DEVON, on Wednesday, the 10th day of October next, at Eleven o'clock in the forenceon, the undermentioned MIN ING MATERIALS—VIZ:

An excellent WATER-WHEEL, 18 feet diameter, and 19 feet breast, with two cranks, &c., complete; about 350 fathoms of wood reds, 7 by 5 inches, with plates and bolts, 300 fathoms of the 10 fathom of diameter, and 19 feet breast of the 10 fathoms of 10 fathoms

The mine is situated about 5 miles from Kingsbridge, whence any part of the mate may be shipped; and they may be viewed by application to John King, on the mine

MISES, BUSINESS, and CONNECTION (which is of a first-rate character), of a first-rate character, of a first-rate charact

articulars apply to James Boydell, land, mine, and machinery valuer, and agent Threadneedle-street, London.

PREBOROUGH SLATE QUARRY, near the ports of WATCHET and MINEHEAD, on the Bristol Channel, TO DE LET, BY TENDER, for a term, from Michaelmas, 1849.—This Quarry is approached by good root notes, and supplies a very extensive district, compraising numerous large and important towns. The Slate is celebrated for its hardness and durability, and is equal in quality to brinkle or Weish Slate. It is inexhaustible, and has been profitably worked for inpawards a century. A tunnel is opened, and a tram-road laid down, which serve to drain the active of the control of

ormstion relative to it. rs, in writing, to be delivered on or before the 27th day of September, 1849, to towelife and Son, solicitors, Stogumber, near Taunton.

HE PROPRIETORS OF MINERAL ESTATES, who are desirons of MAKIN; THEN LUCRATIVE TO THEMSELVES, either by way of ARES, for a definite term of years, or to SELL the SAME, may hear of CAPITALISTS on an eready to embark in such speculation, provided they can be tolerably well assured at success will attend such undertakings. Or, if prefurred by the owners of such provides to keep them in their own hands, but who may be debarred from working them must the want of funds, may have LOANS, to a considerable amount, ADVANCED strong, and for a certain term of years.

Principals only are requested to answer this advertisement.

Address (by letter, poet-paid) John James Coward, Esq., Lansdowne-crescent, Bath, to will also take shares for himself, to a considerable amount, in a bond fide transaction.

TO BE LET, ON LEASE, on most advantageous terms, the COAL and IRONSTONE.

AND IRONSTONE.

der a very large tract of land, in the partah of RUABON in the county of DENBIGH, foining the Shrowsbury and Chester Railway.

The proprietors of the ESTATES on which the Ponkey and Aberderfyn Iron-Works as formerly carried on, have made arrangements TO LET BOTH PROPERTIES GETHER, which will give the lessee of them facilities to carry on a lucrative business tery rarely to be met with. TALUABLE AND EXTENSIVE MINES OF COAL

The COALS and IRONSTONE on these ESTATES may be raised at very much less than an average cost, and the quantity proved in them (besides what are under a very large pertion of one of them, in which there is no doubt they will be found) is estimated will supply from-works with materials to make 400 tons of pig-from weekly for upwards of 30 years, as well as 50,000 tons of the much and justly-celebrated Yard and Wall and Bench Coals per annum for sale, for the same period. Printed particulars of the property, and lithographed plans of the estates, showing the minerals under them, with calculations as to the expense of making from from them, as compared with that of manufacturing it in Staffordshire, may be had upon application at the office of the Mining Journel, 85, Fleet-street; and at J. Boytell's, 44, Threadneedle-treet, London; and at Mesars. Longeville and Williams, solicitors, Oswestry.

THE PATENT OFFICE AND DESIGNS REGISTRY,

No. 210, STRAND, LONDON.

INVENTORS will receive (gratis), on application, the OFFICIAL CIRCULAR OF
MFORMATION, detailing the eligible course for PROTECTION of INVENTIONS and
DESIGNS, will Reduced Scale of Fees.
Meastra. F. W. CAMPIN and CO. offer their services, and the benefit of many years'
reperience, in SECURING PATENTS and REGISTRATIONS OF DESIGNS, with due
yeard to yaliday, soonomy, and dispatch—assisted by ectentific mon of repute.
Also, in MECHANICAL and ENGINEERING DRAWINGS, whether connected with
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ROYAL COLLEGE OF CHEMISTRY.

COURSE OF INSTRUCTION OF HOPMANN and assistants The NEXT SESSION will COMMENCE on MONDAY, the lat of On Saturday, the 23d of February, 1850.

n Saturday, the 23d of February, 1850.

The FEE for students working every day during the student, in four days in the week.

"four days in the week, in two days in the week, in two days in the week, in two days in the week, in the days in the week, in

OYAL GEOLOGICAL SOCIETY OF CORNWALL.—
The THIRTY-SIXTH ANNUAL MEETING of Society will be HELD in the IUSEUM on FRIDAY, the 5th of October next, at not the officers and council will seemble in the same place at Eleven o'clock.
It is reassettilly requested that communications intended for the meeting may be for-

It is respectfully requested that communications intended for the meeting may be forarded to us at the earliest convenience of the authors.

Source:

SAMUEL PIDWELL:

Secretaries.

N.B.—The usual ordinary will be held at the Union Hotel at Three o'clock.

E O L O G Y .— Persons wishing to become ACQUAINTED with this interesting BRANCH OF SCIENCE, will and their STUDIES greatly FACILITATED by means of ELEMENTARY COLENGTIONS, which can be had at TWO, FIVE, TEN, TWENTY, or FIFTY GUIDERS cach, arranged and sold by Mr. TENNANT, 149, 5REED, JONNINS

A COLLECTION for FIVE GUIDERS, which will illustrate the recent works on Geology, contains 200 specimens, in a malogany eshiret, with five trays—viz.: MINERALS, which will illustrate the recent works on Geology, contains 200 specimens, in a malogany eshiret, with five trays—viz.: MINERALS, which will illustrate the recent works on Geology, contains 200 specimens, in a malogany eshiret, with five trays—viz.: MINERALS, which are the components of racks, or coassionally imbedded in them—Quartz, agate, calcadony, jusper, gaznef, scolite, hornblende, augite, asbestus, felspar, mics, talc, fourmaine, calcarrous spar, fluor, scenits, baryta, strontis, sait, sulphur, plumbago, bitumen, &c.

METALLIG ORES.—Iron, manganese, idad, tu, aime, copper, antimony, silver, gold, platina, &c.

platina, &c.

ROCKS.—Granite, gneiss, mica-alate, clay-dals, perphyry, serpentine, sandsioned limestones, busult, lavas, &c.

FOSSILS from the Liandello, Wenlock, Ludlow, Devonian, carboniferous, lias, solite wealden, chaik, plastic clay, Londow clay, and cray formations, &c.

Mr. TENNANT gives PHIVATE LINSTRUCTIONS in MINERALOGY, with a view to facilitate the study of Geology, and off the application of Mineral substances in the Arts likeling the study of Geology, and off the application of Mineral substances in the Arts likeling the study of Geology, and off the application of Mineral substances in the Arts likeling the study of Geology, and off the application of Mineral substances in the Arts likeling the study of Geology, and off the application of Mineral substances in the Arts likeling the study of Geology, and off the application of Mineral substances in the Arts likeling the study of Geology, and off the application of Mineral substances in the Arts likeling the study of Geology, and off the application of Mineral substances in the Arts likeling the study of Geology, and off the application of Mineral substances in the Arts likeling the study of Geology, and off the application of Mineral substances in the Arts likeling the study of Geology, and off the application of Mineral substances in the Arts likeling the study of Geology, and off the application of Mineral substances in the Arts likeling the study of Geology, and off the application of Mineral substances in the Arts likeling the study of Geology and off the application of Mineral substances in the Arts likeling the study of Geology and off the application of Mineral substances in the Arts likeling the study of Geology and the application of Mineral substances in the Arts likeling the study of Geology and the application of Mineral substances in the Arts likeling the study of the application of th

The PATENT METAL is marked with a scuttrel, and the initials "R. J. is and is to be had only at the "Combrain Iron-Works" near Newport, Monmout

TOUGHENED CAST-IRON—STIRLING'S PATENT.
No. 1—For SMALL and MEDIUM CASTINGS.
No. 3—For HEAVY CASTINGS.
No. 3 (Extra)—For ROLLS, HEAVY SHAFFS, and VERY HEAVY CASTINGS.
The above is by far the strongest Cast-Iron made, and is now being exfensively used where strong castings are required.
Further particulars may be obtained on application to
Mesers, GARDEN & MACANDREW,
27, Queen-street, Cheapeide, from whom also the IRON can be PROCURED.

REAT ECONOMY—DUNN'S PATENT TRAVERSING
TRUCKS, FOR REMOVING RAILWAY CARRIAGES AND WAGGONS,
FROM ONE LINE OF RAILS TO ANOTHER.—These TRUCKS have been examined,
and approved of, by some of the most experienced engineers in this country. They have
been laid down, and well tested, both in England and upon the continent; their advantages over other traversing trucks are—that there is no expensive gear attached to them,
and that they leave no gap or recess in the main line—consequently, making more room
at a station, and less liable to accidents or getting out of repair.
The Salford Station, in Manchester, is worked by one; the Peterborough Station, upon
the Eastern Counties Railway, where 10 lines of road are in use, is worked by one; also
several small stations upon the Eastern Counties Railway and other lines; there is also
one of these Traversers working nine lines of road upon the Farls and Lyons Railway,
and others in progress of construction at the
WINDSOR BRIDGE IRON-WORKS. NEAR MANCH ESTER.

WINDSOR BRIDGE IRON-WORKS, NEAR MANCH ESTER there prices and other particulars may be obtained.—A good selection of Crantr Wharf, Warehouses, and Docks, are kept.—Double and Single Geared Cracrew Jacks, &c., always on hand, ready for delivery.

STRUVE'S PATENT MINE VENTILATOR

TO COLLIERY PROPRIETORS.

TO COLLIERY PROPRIETORS.

Quantity of air passed through a Mine almost unlimited, to the extent of 200,000 cubic feet per minute, if necessary—depending on size of apparatus.

GOST of an APPARATUS to produce a ventilation of 20,000 cubic feet per minute, OKE HUNDERD and FIFTY POUNDS, exclusive of patent right. This amount of ventilation would be sufficient for a mine working 180 tons per day, provided it was not very feet; in which case it would be desirable to provide for 30,000 cubic feet of air per minute. The capabilities of the Ventilator may be doubled at any future time, at a comparatively small cost.

The Ventilator has been at work for upwards of six months at the Eaglesbush Colliery, mear Neath, working under a rarefaction of 25 to 3 inches of water, which demonstrates the impracticability of furnace ventilation, when the shafts are shallow and the airways small.—It is practical to rarify a mine by this ventilator to the extent of 2 feet of water, or 2 inches of mercury.

a 2 inches of mercury.

LICENSES will be GRANTED on application to

Mr. WILLIAM PRICE STRUVE, Swanson

CIVIL ENGINEER AND MINERAL SURVEYOR.

CIVIL ENGINEER AND MINERAL SURVEYOR. DEVON-HENNOCK IRON, STEEL, AND TIN

MINING COMPANY.

BANKERS-Devon and Coruwall Bank, Exeter and Newton Abbott.

Solicitors-Messers. Kennaway and Buckingham, Exeter.

Capital £9450, in 4900 shares, at £2 2s. each, without further calls or liability.

The promoters of this company propose to risse the above capital to WORK efficie these very valuable MINES of MICACEOUS IRON and TIN ORE, situate in the part Hennicott, 12 miles west of Exeter, and 2 from Bovey Tracey, on the confine Dartmoor. These mines are not a new discovery, but possess the advantage of has differentiate the state of the confine that the promoter of the confine are not a new discovery, but possess the advantage of has differentiate stated to an extent that fully establishes their great capabilities, d 2 from Boyey Tracey, on the confines of overy, but possess the advantage of having ally establishes their great carabilities.

had their merits tested to an extent that fully establishes their great capabilities, and warrants the expectation of a large trade at a highly remunerating profit.

Prospectuses and particulars supplied on application (if by letter, post-paid) to Mr. Tripp, Bedford Chambers, and of Mr. T. Sanford, Easter: Mr. H. Luscombe, Plymouth; Mr. B. S. Stock, Bristol; Mr. C. P. Cameron, Liverpool; Mr. J. Lane, 80, Old Broadstreet; Mr. Harron, 35, Clements-lane, and at the onice of the Mining Journal, No. 26, Fleet-street, London.

INDURATED AND IMPERVIOUS STONE, CHALK, &c. NOURATED AND IMPERVIOUS STONE, CHALK, &c.

—AGENTS, with capital, are WANTED in all TOWNS to SUPPLY (under British and Foreign Patents) the great demand for HUTCHISONISED MATERIALS—hard as granite, impervious to moisture, verying, &c., the cheapest and most durable for all buildings, hydraulic, paving, monumental and descrative work.—The profits are large.

Apply to HUTCHISON & CO.,

140, Strand, London; or Tumbridge Wells, Kent, and Caco, Normandy, stating name, address, and capital at command.

N.B.—Houses cured of damp. The produce of acft atone quarties, chalk, plaster of Paris, wood, pasteboard, and all absorbout materials indurated to resist frost, vermin, &c.

LICENCES GRANTED.

OANS ON DEBENTURES.—The CALEDONIAN RAILway company are prepared to RECEIVE TENDERS OF LOANS, in summer less than £500.—Applications to be made or addressed to this office.

By order,

125, George-street, Edinburgh, May 30, 1849.

D. RANKINE, Treasurer.

ORKNEY ROTARY ENGINE.—Any PERSONS desiron of INFORMATION respecting this ENGINE, either for License or for Manufalure, are requested to apply to Mr. Henry Thompson, 13 John-street, Adelphi, Londo from whom orders may be obtained to see the engine at work.

OXIDE OF ZINC AS A PIGMENT.—A PARTY, who is in POSSESSION of an IMPROVED MODE of MANUFACTURING PURE OXIDE OF ZING, perfectly white, which is unaffected by sulphurested hydrozen, or offen describing gases, and in which the increased quantity of material covers the original coat of manufacture, is in a position to TREAT with any GENTLEMAN, on advantageous terms, to JOIN him as a PARTMER, or otherwise.—Specimens may be seen, and terms known.

THE PROPRIETORS OF PEAT LAND, MINERS, AND SMELTERS.—A PRACTICAL IRON MANUFACTI at several iron-works in South Europe the meltind of preparing an making, and having procured all the necessary details, OFFER PARTIES who wish to CONSTRUCT WORKS for SMELTING or RON or COPPER by means of PEAT or PEAT CHARGOAL.

N.B.—A ton of peat will produce nearly the same effect as a ton of Scotch coal. For terms, &c., address "A. Z.," care of the Editor of the Mining Journal, No lect-street, London.

TO BE SOLD, BY PRIVATE CONTRACT, a LEASE, for 21 years, of a LEAD MINE, in CARNARYONSHIRE, within 14 mile of a hipping port.—Every information may be had by applying (by letter, post-paid) to Thomas Richardson, South Penrallt, Carnaryonshire.

STEAM-ENGINE FOR SALE.—TO BE SOLD, BY PRI-VATE CONTRACT, an 85-inch cylinder STEAM-ENGINE, 10-feet a
—Application to be made to Messrs. Hocking and Loam, engineers, R

PATENTEES AND INVENTORS desirous of SELLING the WHOLE, or SHARES, of their PATENTS or INVENTIONS, may be introluced to respectable CAPITALISTS, and rely upon an equitable arrangement being made between them, by Mr. EDWARD PALMER, Auctioneer, Estate, and Patent Agent, No. 20, CHANGE-ALLEY, CORNHILL, LONDON.

MINING PROPERTY.—Mr. JAMES HERRON, MINE AGENT, 33, CLEMENTS-LANE, LOMBARD-STREET, has received instructions to DISPOSE of SHARES in FIRST CLASS MINES, paying regular cividents, and yielding to the purchaser from 1/4 to 26 per cent. upon his outlay. He is also in claim to transact business in the following—viz. Trelavary, Tincrori, Great Denon Consels, Treleighs, East Buller, Stray Park, East Wheal Rose, Lewis, Condurrow, East Pool, Inperial Brasilian; St. John del Rey, Sonth Tolgus, Gonomens, West Caradon, Alton, East Crowndale, Troviskey, and Tressycan Mines.

MR. HENRY VATCHER, MINING AND RAILWAY
SHAREBROKER, EXETER.
Competent and experienced AGENTS provided to INSPECT MINES, at the shortest
notice.

MR. R. TRIPP, MINING AGENT and SHAREBROKER, BEDFORD CHAMBERS, BAMPFYLDE-STREET, EXETER.

MR. GEORGE BATE, Jun., CIVIL ENGINEER AND SURVEYOR. WOLVERHAMPTON.
Offices in Queen-street, colder of Piper's-row.
N.B.—UNDERGROUND MINING SURVEYS accurately executed.

MR. C. S. RICHARDSON, CIVIL ENGINEER, LAND Ao. 15, OLD BROAD-STREET, CITY.

JAMES LANE, MINING SHARE DEALER, 80, OLD BROAD-STREET, LONDON.

STURIAN MINING COMPANY.—NOLUCE IS HERED BEALE R.

STURIAN MINING COMPANY.—NOLUCE IS HEREDY SEVERA,

that at a Special General Meeting of this company, held at the company's offices,
in the 28th day of September inst., it was resolved.—That Messrs. ROBERT MOORE,
MICHAEL FORRISTALL, and JAMES SCOTT. appointed as Liquidators, at the Spedal General Meeting of the 28th day of August last, do ACT as Liquidators, at the Spedal General Meeting of the 28th day of August last, do ACT as Liquidators, at the Spedan General Meeting of the 28th day of August last, do ACT as Liquidators, at the Spedan which the band of directors, and that their appointment be, and is now, conditued.
That, by virue of the said membration, the board of directors of this company, in coaunction with the said Messrs. Robert Moore, Michael Forristall, and James Scott, constitute the Committee of Liquidating Administrators, pursuant to the statutes of the company and the committee of Liquidating Administrators, pursuant to the said the company and the committee of Liquidating Administrators, pursuant to the said administrators in Spain.
Offices of the Company, 9, Austinfriars, London, Sept. 8. MACKENZIE, Secretary.

Offices of the Company, 9, Austinfriars, London, Sept. 8. MacKENZIE, Secretary.

STURIAN MINING COMPANY .- The Board of Directors and Committee of Liquidation hereby give Notice, that they have made a further CALL of TWO POUNDS, or 200 reals veilion, per share upon the shares held in the capital stock of the company, and that such call is PAYABLE, for holders of Spanish shares, at the bank of Messrs. H. O'Shea and Co., Madrid; and for all other shares, at the London and County Bank, Lombard's-treet, London, on the 10th day of November next. That shareholders who shall pay one-half of the said call on or before the said loth day of November, will be allowed one month for the payment of the other half of the said call: 5 per cent. discount will be allowed on pre-payment,

K. MACKEN ZIE, Secretary. id call: 5 per cent. discount will be allowed on pre-payment, ces of the Company, 9, Austinfriars, London, Sept. 28, 1849.

RELEIGH CONSOLIDATED MINING COMPANY .-Notice is hereby given, that the ANNUAL GENERAL MEETING of the will be HELD at the offices, as under, on Wednesday, the 3d of October for One o'clock precisely.

WM. NICHOLSON, Seci 57, Old Broad street, Sept. 18, 1849.

DUISBURG IRON-WORKS AND MINES,
Managed in England according to the principles of the "Cost-book System," and in
Prussia as a Société in Commandéte, under laws limiting the liability of the shareholders
to their nersonal subscription. Managed in Sugistic Prussia as a Société in Commandité, under laws to their personal subscription. Company's Offices, 28, Moorgate-street, City.

A SSAYING AND ANALYSIS.—Mr. MITCHELL begs to inform the MANAGERS, &c., of MINES, SMELTING-WORKS, and MANUFACTORIES, that he still continues to CONDUCT ASAYS and ANALYSES of all PRODUCTS, metallurgical and manufacturing, at his LABORATORY,

23, HAWLEY-ROAD, KENTISH TOWN, LONDON, such address communications are to be forwarded.—Instruction in all branches of ing and analysis as usual.

BICKFORD'S PATENT SAFETY FUSE.—The Patentees of the ORIGINAL, and only real, SAFETY FUSE, beg to inform Merchants, Mine Agents, Railway Contractors, and all persons concerned in Blasting Operations, that, for the purpose of protecting the public in the use of a genuine article, the PATENT SAFETY FUSE has now a thread wrought into its centre, which being patent right, infallibly dishinguishes it from all initiations, and cancres the continuity of the gunpowder. The Safety Fuse is now protected by a Second Patent, and manufactured by greatly improved machinery.

BICKFORD, SMITH, & DAVEY, Camborne, Gornwall. tected by a Second Patent, and manufactured by gr BICKFORD, SMITH, & DAVEY, Camborne, Co

WIRE ROPE.—The Undersigned beg to inform the public, that they have become SOLE LICENSEES of Mr. ANDREW SMITH, for the MANUFACTURE and SALE of his PATENT WIRE ROPE; and having fitted their premises with his very superior improved machinery, have only to assure those who may premises with his very superior improved machinery, have only to assure those who may favour them with their orders, that the same care and attention shall always be bestowed which, they have reason to believe, has secured them such general support.

LIGHTNING CONDUCTORS, SIGNAL CORD, and SASH LINE, always in stock.

WILKINS & WEATHERLY.

Patent Wire Rope Works, No. 39, High-street, Wapping, Lor

TO ENGINEERS AND BOILER MAKERS.—The
BIRMINGHAM PATENT IRON TUBE COMPANY
MANUFACTURE PATENT LAP-WELDED IRON TUBES (under Mr. E. Prosser's
Patent) for Marine, Locomotive, and all Tubular Boilers. Also, TUBES for Gas, Stoam,
and other purposes. All sorts of IRON GAS FITTINGS.

WORKS—Smethwick, near Birmingham.
LONDON WAREHOURE—No. 6, Upper Thames-street.

TO THE OWNERS OF COLLIERTES, MINES, PLANTATIONS, SAW-MILLS, &c.
IMPROVED CIRCULAR SAWS, MILL-SAWS, FILES,
Machine Irons, and Cutting Knives, Steel in Blister, Bar, Cast, Shoar, and Drift Steel, Springs
for Railways and Common Roads, Iron Washers, Books, Hammers, &c., on the most
PERFECT and ECONOMICAL PRINCIPLES, MANUACTURED with DISPATCH, by

BLAKE AND PARKIN, THE MEADOW STEEL WORKS, SHEFFIELD.

Arto Batents.

SPECIFICATIONS ENROLLED DURING THE PAST WEEK. pecification of patent granted to A. Parkes, Harborne, Stafford, chemist, for improve ats in the deposition and manufacture of certain metals, and alleys of metals, and im-red mode of heating and working certain metals, and alloys of metals, and in the approved mode of heating and working certain metals, and alloys of metals, and in the application of the same to various useful purposes. Mr. Parkes' improvements consist—1. In depositing on the surfaces of iron tubes, or any other articles of metal, copper, silver, the lead, and bilmuth, in successive layers, through the agency of electric currents. He states that he has found the articles of metal to be better protected by this system than by the old one of coating them with one metal only.—2. In forcing air or chlorine gas, by means of a blowing machine, upon the surface of copper, or the alloys of copper, or the redning furnace, for the purpose of facilitating the smelting process.—3. In forcing air, by means of a blowing machine, upon sulphurefled copper in the blast or reverbeaucry furnace, after the manner specified in a former patent granted to Mr. Parkes.—4. In the application, as a blowing machine to the two preceding purposes, of the apparatus ordinarily employed to exhaust gas from retorts.—5. In combining from, silver, and nickle, for casting with phosphorus, in the proportion of from 2 to 10, by dropping the phosphorus into the combined metals while in a state of fusion.—5. In coating metals, or alloys of metals, with a combination of other metals, or alloys of them, which melt at a lower temperature than the former.—7. In coating rollers which have been worn down by use with the phosphorus that of manganese, which are to be used in the form of acid oxide. The metals are placed in a cracible, covered with carbon, and a small quantity of phosphorus intends with them.—9. The patentee proposes, lastly, to manufacture printing rollers, by coating cylinders of Iron, or other metals with copper. A solution of copper, in cyanide of potassium, at a temperature of 150° Fahre, is employed for this purpose.

LIST OF PATENTS GRANTED DURING THE PAST WEEK.

es-street, Coventry-street, Middlesex, carver and gilder, fo

J. M. Blashfield, Mill-wall, ropar, Minuresa, normal comparison in the manufacture of manire.

W. Browne, St. Austell, Cornwall, mine agent, and R. R. Veale, gentleman, St. Columb dajor, in the said county, for improvements in preparing for pulverisation films stone. Blass stone, ores, minerals, spars, ands, cartins, and other substances.

N. D. Mailiard, Edward-street, Portland-place, engineer, for improvements in obtaining modified power for giving motion to machinery, and in propelling vessels.

W. Boggett, gentleman, St. Martin's-lane, Middlesex, for improvements in heating and

N. D. Mailiard, Lucustan and the machinery, and the manufacture power for giving motion to machinery.

W. Boggett, gentleman, St. Martin's-lane, Middlesex, for improvements in the manufacture w. E. Newton, Chancery-lane, civil engineer, for improvements in the manufacture of knobs for doors, articles of furniture, or other purposes, and in connecting metallicatachments to articles made of glass or other analogous materials. (Being a communication of the manufacture of the machinery of the manufacture o

C. E. Buller, Farringdon-street, hearse.
W. Wilson, Manchester, gas retors.
John Sanders, and Samuel Rooke, Jun., Birmingham, a set of dies for forming hollows subular rings.—Mechanics' Magazine.

Extension of this Electric Telegraph.—The Electric Telegraph Company, Lothbury, having now completed their arrangements with the Postmaster-General, and the different lines of railway, for a further extension of the transmission of messages, or expresses, from their branch office at the General Post-office, St. Martin's-le-Grand, the public can, by this facility, send any information to the following places at the rate of 1d. per mile for the first 50 miles, d. for the second 50, and 1d. per mile for any distance beyond 100 miles (for 20 words):—Alnwick, Attleborough, Anthergate, Broxbourne, Birmingham, Barton-on-Trent, Barnsley, Beverley, Bridlington, Bradford, Berwick-upon-Tweed, Bishopstoke, Chelmasford, Colchester, Cambridge, Cheltenham, Chesterfield, Derby, Durham, Dunbar, Darlington, Ely, Edinburgh, Glocester, Gosport, Glasgow, Hertford, Hull, Hallitx, Ipswich, Lincolu, Loughborough, Leicester, Lowestoffe, Leeds, Liverpool, Leith, March, Melton, Manchester, Malton, Morpeth, Newcastle, Newmarket, Newark, Nottingham, Norwich, Northallerton, Normanton, Peterborough, Romford, Rugby, Rotherham, Rochdale, Slough, Stortford, St. Ives, Stamford, Sheffield, Selby, Skipton, Scarborough, Sunderland, Sondt Shields, Southampton, Thetion, Tamworth, Todimorden, Thirsk, Witham, wisbeach, Worcester, Wakefield, Ware, York, and Yarmouth. The establishing a branch office at St. Martin's-le-Grand is a great facility to that department, in receiving intelligence of the sarrivals and departures of the foreign and colonial mails from Dover, Southampton, Liverpool, and Falmouth, and for the transmission of orders to the post-masters, and others, throughout the country, and other official purposes. EXTENSION OF THE ELECTRIC TELEGRAPH.—The Electric Telegraph Com

A New Electric Telegraph—[From a Correspondent].—The spirit of the present age is adverse to monopoly. We have now our penny postage, our penny steam boats, even our penny life assurances. We enjoy free trade in the present age is adverse to monopoly. We have now our penny postage, our penny steam boats, even our penny life assurances. We enjoy free trade in grain, free trade in shipping, and we are now promised free trade in electrocommunication. Messrs. Wilmer and Smith, the news agents in London, Liverpool, and New York, have announced to the press and the public that they have deemed it necessary, in consequence of the continued interruption given to their telegraphic communications during the past year, to provide other their telegraphic communications during the past year, to provide other things the purpose they have become associated, as joint owners, in all the patent rights and privileges of the Electric Printing Telegraph, invented and improved upon by Mr. House, of New York, and the Messra. Brett, of London and Paris. As the business management in this country is solely and entirely vested in their hands, they amounce their determination "to make telegraphic communication in Great Britain and Ireland as cheap, rapid, and efficacious as that so extensively used in America." The machines they intend to use are on the newstand most improved principle, and print in clear legible type, at the rate of from 40 to 50 words per minute. Duplicate copies, to any extent, may be had at the same instant. Accuracy is thus insured—the mistakes incidental to copying being entirely avoided. Secrecy, so essentially necessary, both to the press and the commercial world, is guarranteed by the very simplicity of the machinery. Parties may converse at each end of the wire, without the inconversiones of a third person's pressure. The rate of charges will, it is said, be from 300 to 400 per cent. below the scale at present charged. The submarine telegraph to France (the right to which is exclusively granted by the French Government to Mr. Jacob Brett, one of the parties above referred to) will form a connecting link with the great lines of European telegraphs, so that, when completed, London is to be placed in hourly correspondence

EASTERN UNION.—This company's extension line is completed to within three miles of the terminus at Norwich, and experimental trips are being made over it. When opened, the journey between London, Norwich, and Yarusouth will be abridged over the present route by between one and two hours.

LANCASHIRE AND YORKSHIRE RAILWAY.—The dangerous curves upon this ne at Charlestown have just been reduced from a radius of 660 to one of 2000 ft HAG AT CHAFFESTOWN have just been reduced from a radius of 560 to one of 2000 ft. HOLLOWAY'S OINTMENT AND PHLES A NEVER-FAILING REMEDY FOR THE STAR OF SCHETT AND SCORDITH HONOURS.—Thomas Andrews, of Sutton-street, Newsside, had been severely afflicted for years with scurry and scorbuile humours all over is body. He had been under the treatment of several medical men, but to no purpose, and at last he was pronounced incurable. The poor follow, then, as a forlorn hope, comenced using Holloway's ointment and pills, which so effectually eradicated the disease om his system, that in the course of six weeks he was enabled to resume his former mployment, and his skin is now as clean in appearance as that of an infant. Sold by ill druggiess, and at Professor Holloway's establishment, 244, Strand, London.

13 9 to 14—Nixon's Marthyr and Cardiff 21—Schone's Hartley 14 9.—Ships, 105; sold, 66.

WEDNESDAY.—Buddle's West Hartley 15—Card's Hartley 14 9.—Ships, 105; sold, 66.

WEDNESDAY.—Buddle's West Hartley 15—Card's Hartley 15—East Adairs Main 13 6

Hastling 'Hartley 15—Holywold Main 15—Revensworth's West Hartley 14 6.—Tanfield
Moor 14—Tanfield Moor Butes 13 6.—West Hartley 15—Wall's-End Clemnel 15 9.—Gooforth 17—Hadley 17 3—Harton 17—Eddell 17—Eden Main 11 7—Bell 17 9.—Belmont 18—Resell's Heston 18—Stevart's 18 3—Whitwell 17 3—Adeidid Fees 17 9—South Durham 17—St. Holen's Tees 16 6—Toes 18—Derwentwater Hartley 15.—Ships at market, 51; sold, 31.

FRIDAY.—Card's Hartley 15.—Ships at market, 51; sold, 31.

FRIDAY.—Card's Hartley 15 6—Adair's Main 13 6—Hastley 15—Tanfield Moor
Bute's 13 6—Wort Hartley 16 6—Wylam 15.—Wall's End Acorn Close 17 6—Chemil 18 9—Hotspur 16 6—Eden Main 18—Lambton Frimross 17 9—Bell 17 9—Belmont 17 9

Bradwiff 16 6—Edton 18 6—Lambton 18 3—Stewart's 18 6—South Hartleyold 17 9—Belmont 17 9

Bradwiff 16 6—Eden Main 18—Lambton Frimross 17 9—Bell 17 9—Belmont 17 9

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Bradwiff 16 6—Eden Main 18—Lambton Frimross 17 9—Bell 17 9—Belmont 17 9

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Bradwiff 18 6—Eden Main 18—Lambton Frimross 17 9—Bell 17 9—Belmont 17 9

Bradwiff 18 6—Bell 18 9—Bell 18 9—B

YWS

FRANKLIN COXWORTHY'S DISCOVERIES IN NATURAL PHILOSOPHY.—No. VII.

THE MINING JOURNAL,

FRANKLIN COXWORTH'S DISCOVERIES IN NATURAL PHILOSOPHY—No. VII.

In our previous investigations of the phenomenon commetted with combustion, the gases, and their restoration to the atmosphere and the vegetable kingdom, we ought to have observed, as being also eposed to the doctrine of diffusion (the fallacies of which cannot be ten forcibly raged), that the great bulk of the introgen liberated by combustion is set free in the cold latitudes, wherein the greatest diegree and amount of artificial the fallacies of which cannot of artificial the cold of the fallacies of which cannot be a set of the cold of the fallacies of which cannot be a set of the fallacies of which cannot be a set of the cold of the fallacies of the cold of the fallacies of the fall cold of the cold of the fall cold o

OXIDE OF ZING AS A PIGMENT.—Numerous attempts have, for years past, been made, to introduce an oxide of zinc into use as a paint, to supersede white-lead, with its permicious qualities; but hitherto all trials have proved comparative failures, and from various causes—not sufficient purity of colour in the first instance—if by any means a good white, rapid discoloration when in contact with various gases—or the total impossibility of succeeding in its manufacture, with anything like the necessary economy, to compete with white-lead. We have before us some samples of an oxide of sinc, the production of a French chemist, under a new and economical process, by which the cost of manufacture is covered by the increase of material. This material is a pure pearly white impalpable powder, does not change colour when mixed with oil, and the usual menstruams, and when dry, currents of carbureted or sulphureted hydrogen gas may be passed over it, without having the slightest effect on the colour or texture; while it is entirely free from those deleterious properties in which all admixtures of lead are so prolific. We shall be happy to show the paint, either dry or mixed, and some further information will be found in our advertising columns.

paint, either dry or mixed, and some further information will be found in our advertising columns.

Remarkable Experiment with Liquid Metal.—M. P. H. Boutigny, whose beautiful experiments on the apheroidal condition of water created so much interest at the meeting of the British Association at Cambridge, has recently been pressing his researches on heat in a somewhat novel direction. He has now proved that metals in a melted state have in a remarkable manner the repulsive force of incandescent (white heat) surfaces, and that the tricks of freeaters and conjurors belong to a high class of physical facts. He says, "I have made the following experiments:—I divided or cut with my hand a jet of melted metal, of five centimetres, which escaped by the tap. I immediately plunged the other hand into a pot of incandescent metal which was truly fearful to look at. I involuntatily shuddered, but both hands came out of the ordeal victorious."—I shall of course be asked," he centimued, "what are the precautions necessary to prevent the disorganizing action of the incandescent mass? I amswer, none. Have no fear; make the experiment with confidence; pass the hand rapidly, but not too rapidly, in the metal in full finsion. The experiment succeeds perfectly when the skin is moist, and the dread usually felt at facing masses of fire supplies the necessary moisture; but by taking some precaution we become truly invulnerable. The following succeeds best with me:—I rub my hands with soap, so as to give them a polished surface; then, at the instant of trying the experiment, I dip my hands into a cold solution of sal ammoniac saturated with sulphurous acid." The experiment has been tried by Boutigny with melted lead, broace, and cast-iron

IRON VESSELA, THE PRESERVATION OF THEIR BOTTOMS.—The Fairy, Royal

craste, had been severely efficied for years with scury and scorbuide humours all over his body. He had been under the treatment of several medical men, but to no purpose, and at fast he was pronounced incurable. The poor fellow, then, as a forform hope, commenced using Holloway's cintiment and pills, which so effectually eradicated the disease from his system, that in the course of six weeks he was enabled to resume his former sail druggiess, and at Professor Holloway's cintiment and pills, which so effectually eradicated the disease from his system, that in the course of six weeks he was enabled to resume his former sail druggiess, and at Professor Holloway's establishment, 244, Strand, London.

COAL MARKET, LONDON.

COAL MARKET, LONDON.

GOAL MARKET, LONDON.

COAL MARKET, LONDON.

PRICE OF COALS FER TON AT THE CLOSE OF THE MARKET.

MONDAY.—Carr's Hartley 14 6—East Adair's Main 13—Hasting's Hartley 14 9—Month and the Commander of nava in discussions and Mr. Peacock, of Southampton, had each a side of her bottom to pay over with their respective compositions, to test their relative merit, Mr. Hay having the port side, and Mr. Peacock the starboard. The Fairy has not been idle during the three months that have elapsed since it was done; she has been conducted by the country of the

THAMES TUNNEL COMPANY

The number of passengers who passed through the Tunnel in the weak ending Sept. 22 was—No. of passengers, 13,913.—Amount of money, 257 19s. 54,

CURRENT PRICE OF GOLD AND SILVER.

Foreign gold, in bars ... per oz. £3 17 9 New dollars per oz. £0 4 91 "Portngal piscos.... 0 0 0 Sliver in bars (standard) 0 4 115

PHILLIPS'S PATENT FIRE ANNIHILATOR.

This ingenious and really valuable invention possesses an overwhelming power in extinguishing fire, and is constructed on a principle for superseding the use of water by the generation of vapours, non-supporters of combustion, which instantaneously prevents the spread of the devastating This ingenious and seally valuable invention possesses an over-monagposser in extinguishing fire, and is countricated on a principle for superseding the use of water by the generation of vapours, non-supporters of
combustion, which intentaneously prevents the spread of the downstating
element, and with this advantage, that the furniture and lines not destroyed by fire is totally uniqued by the gas evolved. The machine is
composed of four tis, or this needs into, repladrical cases, within each other,
the central one contraining a chemical preparation, which, when required,
will discharge with enormous force a vapour, which instanaeously extinguishes all flame. They are manufactured of all sizes—from that of a
capacity can instantly carry the miniliator to the spot, put the hose through
the door, or window, press down a stop, and the progress of, the fire is
instantaneously arrested. One great advantage is, that the vapour will at
once extinguish oil, tax, ppirits, sugar, &c., when in combustion whereas it
is well known that water is quite useless in such cases, and, indeed, adds to
the mischel. One grant encommendation of the invention, therefore, is,
quences of fire, during the important interval which must clapse before
ordinary fire-engines can be brought into play; and it acquires an invaluable character when regarded as a protection to property in the country,
whether patrician massions, ordinary residences, or agricultural buildings;
as in most cases of fire is reard districts, it is not only unlikely that if are
outer of the substantial of the substantial cases where water is often useless, the hamilt vapour penetrating every
part of the hold, and other parts, would be instantly effectual, without injury in case of ishalation, and save, in many otherwise awful cases, hundreds of human lives. Fires among goods in rallway trains, memory in particular to the property of the property of the substantial
particular to the property of the hold, and other provise and paper, they are in a propart o

RAILWAYS IN PRUSSIA.—The Staats Anzeiger publishes interesting statistic statements on the state of the railways in Prussia down to the end of the year 1848. Seventeen lines of rail, comprehending an extent of 3t5 German miles, have been opened to the public, and five other lines partially completed to an extent of 44 miles; the expenses of construction amounted to 123,140,000 rix dollars. That is per German mile 369,178 rix dollars. They were traversed by 464 locomotives, 1243 passenger carriages, and 5527 luggage vans, &c. The transports on the 17 first lines comprised, in 1848, 7,866,868 travellers, and 24,532,865 cwts. of merchandise. The recepts during the same period amounted to 8,888,251, or per mile 228,217; the expenses came to 5,055,415, or \$46,049 per mile. The Magdeburg line to Leipzig (16 German miles) gave to the shareholders a dividend of 10 per cent.; five have yielded no interest, and the rest have produced for the shareholders a profit varying from 1 to 6 per cent. The average of the dividends for all the lines was, in 1848, 274 per cent., or for the \$119,440,000, forming the capital laid out on the construction of the lines worked along their whole length, 3°91 per cent. In 1847 the net product amounted to 4'67, in 1846 to 4'97, in 1845 to 4'62, in 1844 to 4'74 per cent.—In 1848, 55 miles were again opened to circulation; in 1849 there have been already 14½ miles, and 4½ more will be opened before the end of the year. Moreover, five new lines, of an extent making 105 miles, are now in course of construction.

Lyons and Avignon Railway.—It is stated to be the intention of the Franch Government to promote, as far as possible, the proposed plan for the completion of this railway by a private company, and which will speedily be brought on for discussion in the Assembly. The estimated possible outlay is 3,000,000. On this the Government are to guarantee 5 per cent. and the parties by whom

ition of this railway by a private company, and which will speedly be brought on for discussion in the Assembly. The estimated possible outagy is 9,000,000. On this the Government are to guarantee 5 per cent., and the parties by whom the undertaking is to be aided are those who wave the original subscribers to the Bordeaux and Cette, the Lyons and Avignon, and the Jampoux and Haze-brouck Railways. The project, as it is at present understood, is to divide the 9,000,000 into two sums of about 5,000,000 and 4,000,000 L, and that the 9,000,000 hall be subscribed by the persons above-mentioned, whose caution-money already paid upon the 3 defunct lines, amounting to nearly 1,000,000 will be reckoned in part payment. This 5,000,000,00 however, is to be in the shape of a loan, and the holders are not to participate in the fortenes of the investment equal to the present terms of in wastments in the funds, the rate of interest to be allowed is about 55 per cent. which will proportionably reduce the amount of interest guarantee applicable to the remaining 4,000,000. The inducement to the subscribers for the latter amount will consist in the sole right to the profits beyond 5 per cent. of the entire lims, including the whole of the pertines already constructed or purchased by the Government, the free use of which is to be handed over to them.—Times

The Little Rock (Ark.) Democrat says, that fine black marble has been discovered near the head of steam-boat navigation on White River. It appears on the bank on either side of the stream.

Inish Paar Ghardoal.—A vessel arrived in the river from Dublin has brought 20 packages of charcoal as a portion of her cargo.

(rewards for fatal object Moreover, back to the for the rewards, as his may be stall requires sum musication munication is at the refarthing peble.) The communication graph Con is charged is charged ration for t Telegraph

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The various drawn, of stout the other work; a brickwor capped v from the nected w buried in turn wire trument batteries which is is objecti into any plates of into sand to preven one static of the nec

the letter rounded 1 mitted eit to the rig number of ments of many as a minute; site mover graphist twith a con tions. So have acqu I have kn having no tending th

wise, great at hand to men's, &c.

Transactions of the British Association.

ELECTRO-TELEGRAPHIC COMMUNICATION:

ON ITS PERSENT STATE IN ENGLAND, PRUSSIA, AND AMERI BY FRANCIS WHISHAW, Esq.

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In my present communication, I shall not attempt to describe and enter into the merits of the numerous, simple, and beautiful telegraphic instruments now known and in use in different parts of the world. My object is to bring forward generally the three great systems of electric telegraph now in use in England, Prussia, and America, and to point out the advantages and disadvantages of each.

1. THE ENGLISH SYSTEM.—The English telegraphic system may be divided into two classess—viz.: 1st, the railway telegraphs; and 2d, the commercial telegraphs. The railway telegraphs are used merely for the purpose of sending communications relating to railway matters; but the commercial telegraphs, belonging to the Electric Telegraph Company, are used by the public for the transmission of public and private communications of company and private communications. tions, at fixed rates of charge.

The following are the principal railways in Great Britain furnished

m	telegraphs:		
	London to Dorchester		
	Bishopstoke to Gosport	16	
	London to Ipswich, via Chelmsford	68	
	Branches-Maldon and Braintree	12	
	London to Yarmouth, via Cambridge and Norwich	146	
	Chesterford to Newmarket	18	
	Rye House to Hertford	51	
	Cambridge to Huntingdon	194	
	Leicester to Ely, via Peterborough	831	
	March to Wisbeach	8	
	London to Leicester	1025	
	Blisworth to Peterborough	454	
	Rugby, via Birmingham and Crewe, to Liverpool and Manchester	1184	
	Liverpool to Southport	14	
	Crewe to Chester	21	
	Birmingham to Gloucester and Cheltenham	53	
	Derby to Birmingham	414	
	Barton to Crewe	448	
	Derby to Lincoln, via Nottingham	482	
	Syston to Long Eaton	17	
	Leeds to Bradford	13	
	Derby to Leeds, via Normanton	73	
	Sheffield to Masborough	. 5	
	Bradford to Skipton	18	
	York to Normanton	241	
	Manchester to Normanton	50	
	From York and North Midland Railway, via Selby to Hull	35	
	York to Scarborough	421	
	York to Newcastle	83	
	From Belmont to Durham	3	
	From Brockley Whins to South Shields	3	
	From Newcastle to Edinburgh	139	
	From Edinburgh to Glasgow	47	
	Total Miles		

Thus the commercial telegraphs, belonging to the Electric Telegraph Company, extend over 1541 miles, besides a few branch lines.

In addition to the above, the South-Eastern Railway Company have established commercial telegraphs between—

London and Dover Aftles		**
Ashford and Margate	34	
Ramagate Branch	6	
Minster to Deal	9	
Paddock Wood to Maidstone	10	
Tunbridge to Tunbridge Wells	5	
2 I'W Manualla removers burn how to software one will		

Basides the lines of telegraph belonging to the Electric Telegraph Company and the South-Eastern Railway Company, there are other railways famished with Cooke and Wheatstone's Telegraph.

The whole extent may be stated at about two thousand miles. The construction of the telegraphs, chiefly used in England, the lengths of which I have given above, may be thus described. Along the sides of the various railways (for by this system it is wise to have the telegraph wires protected, as far as possible, by a constant supervision) wooden vertical posts of fit timber are ranged at convenient distances. Each post is furnished with an insulator of earthenware, through which the wires are drawn, to prevent their connection with the wooden posts. The wires are of stont galvanised iron, which are carried from one end of the railway to the other in the way I have mentioned, except in passing through tunnels, or under bridges. In such cases, the insulators are attached to the brickwork; and thus the wires are prevented from being in contact with the brickwork. Each post is furnished with a lightning conductor, and is also capped with a wooden roof, with dripping caves to throw the rain water from the wires. At each end of the telegraphs, the line wire is connected with an earth battery, consisting of a large plate of zinc or copper, buried in the earth—the object of which is to avoid the necessity of a return wire, which in the first telegraphs in England was made use of. At the various stations, one or more of Cooke and Wheatstone's needle instruments are set up, and which are connected with the line wires and batteries by wires of smaller size, generally covered with silk or cotton, which is easily destroyed by the alternations of weather, and, therefore, is objectionable. Each telegraphs on this plan has two wires. The batteries used are of the most simple form, consisting of a trough, divided into any number of cells, according to the power required. Alternate plates of zinc and copper are connected throughout the pile, w (rewards for whose apprehension have frequently been offered), are all fatal objections to the present English system ever becoming universal. Moreover, the expense to railway companies and others is a sad drawback to the further extension of this system in Great Britain and Ireland—for the railways of which alone an extension of at least 2000 miles is still required. The average charge for an electric telegraph, with two wires, as hitherto furnished to the various railway companies in England, may be stated at not less than 150l, per mile; added to which an annual sum must be calculated on for keeping it in order, and reinstating, when necessary, the wooden posts, &c. The charge for transmission of communications by the Electric Telegraph Company's telegraphs in England is at the rate of one penny per mile for the first fifty miles, and one farthing per mile for any distance beyond one hundred miles,—Gee table.) The South-Eastern Railway Company's charges for telegraphic communications are even much higher than those of the Electric Telegraph Company.—(See table.) Thus 20 words, transmitted 38 miles, is charged the large sum of 11s.; whereas the same length of communication for the distance of 100 miles is only charged 6s. 3d. by the Electric Telegraph Company.

The state of the second	AMERICAN SCALE OF CHARGES.	
Words-10	20 20 40 50 60 70 80 90 100	
FROM WARHINGTON TO Miles. s. d. s.	s. d. s. d. s. d s. d. s. d. s. d. s. d. s. d. s. d. Contr.*	
Fredericksburg 60 0 101 1 Raleigh 292 1 10 2 Columbia 509 2 9 4	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	A 15.00
Columbus	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4
True diameter propertied in malling branch	• For every additional word.	M,

ELECTRIC	TELEGRAPH	COMPANY'S	CHARGES.

STULE NO	Words-20	30	40	50	60 *	70	80	90 100
100		4 8 7 31 9 41	6 10‡ ····· 9 11‡ ····· 12 6 ·····	9 04 1 12 7 1 15 7 1	1 2‡ 1 5 4 1 8 9 5	13 54 18 04	15 74 20 84 25 0	6. d. 's. d. 17 91 20 0 23 42 26 1 28 14 31 3 37 6 41 8

SOUTH-EASTERN RAILWAY COMPANY'S CHARGES.

- mounts in the seemen	17 6	Words	-20		30		4	0		50	60)		70	8	0	9	10	M. W. J. I.	10	0
FROM LONDON TO	Miles.		8. 6	1.	8.	d.	8.	d.	8.	d.	8.	d.	a.	d.	8.	d.	8.	d.	11 11 11 11	8.	d.
Merstham	19		8		7 12	6	10	0	12	6	15 25	0	17	6	20	0	22	6		25	0
Dover	88	*****	11 (16	6	22	0	27	6	33	0	38	6	44	0	49	6		55	o

These facts are brought forward in order to show that not only do telegraph companies derive much greater advantages, but also the public at large, by the construction of telegraphs on a more economical system. This brings me to the American system of telegraphs which are already extended between the following places:—

AMPRICAN	TELEGRAPH	SVSTEM

AMERICAN TELEGRAPH SYSTEM.	111.6	
Washington to New Orleans, via Richmond (Virginia) Miles	1716	
Washington to New York, via Baltimore and Philadelphia	245	
Washington to Frederick (Maryland)	45	
Harper's Ferry to Winchester, Virginia	32	
Baltimore to Pittsburg (Pennsylvania), and Wheeling (Virginia), via		
Cumberland	324	
Baltimore to Harrisburg (Pennsylvania), via York	72	
York to Lancaster, via Columbia	22	
Philadelphia to New York (House's telegraph)	120	
Philadelphia to Pittsburg, via Harrisburg	309	
Philadelphia to Pottsville, via Reading	98	
New York to Boston, via Newhaven and Springfield	240	
New York to Buffalo, New York, via Troy and Albany	509	
New York to Fredonia, on Lake Erie, via Newburgh, Port Jervis.	000	
Owego, &c	500	
Bridgeport (Connecticut) to Bennington, Vermont, via Pittsfield,	000	
(Massachusetts)	150	
Boston to Newbury Port (Massachusetts), via Salem	34	
Boston to Portland (Ma.), via Dover, New Hampshire	110	
Worcester (Massachusetts) to New Bedford, via Providence, Rhode Is.	97	
Worcester (Massachusetts) to New London, Connecticut, via Norwich	74	
Portland to Calais, via Bangor	260	
Troy (New York) to Whitehall, via Salem (New York)	72	
Troy (New York) to Montreal (Canada), via Bennington, Rutland, and		
Burlington (Vermont)	278	
Syracuse to Oswego (New York)	38	
Auburn to Elmira (New York), via Ithaca	75	
Buffalo to Queenstown (Canada), via Lockport (New York)	48	
Buffalo to Milwaukie, via Erie (Pennsylvania), Cleveland (Ohio), De-	40	
troit, Michigan, and Chicago (Illinois)	812	
Queenstown to Montreal, via Toronto and Kingstown	466	
Quebec to Toronto, via Three Rivers and Montreal (Canada)	556	
Pittsburg to Cincinnati (Ohio), via Columbus	310	
Pittsburg to Columbia (Tennessee), via Wheeling (Virginia)	680	
Columbia to Memphis (Tennessee)	205	
New Orleans to Balize, mouth of the Missouri	90	
Columbus to Chillcothe (Ohio)	45	
Cincinnati to Maysville (Kentucky), via Ripley	60	
Cincinnati to St. Louis (Missouri), via Vincennes (Indiana)	410	
Philadelphia to Lewistown • • • • • • • • • • • • • • • • • • •	100	
Calais to St. John's (New Brunswick)	60	
Cleveland to Pittsburg, via Akron	150	
Columbia to New Orleans, via Tuscumbia and Natchez	460	
St. Louis to Chicago, via Alton	260	
Atton to Galena	280	
Total	511	
Total Mues 10,	oll	

ssian Government Telegraphs:—	German	Miles.	English Mile
1. From Berlin to Frankfort	92	******	430-56
2. From Berlin to Aix-la-Chapella			
3. From Dusseldorf to Elberfeld	4	******	18.72
4. From Berlin to Hamburgh	38	******	177.84
5. Berlin to Stettin			
6. Berlin to Oderberg (Austria)	72	******	336-96

railway, whether in cutting, or embankment; but in passing over bridges, or viaducts, the whole is further protected by iron plping. In passing under rivers, as at Cologne, chain pipes, somewhat similar to that which I laid before the section, on Thursday last, are used. The Rivers Spree, Havel, and Elbe, are also passed in a similar manner. At the terminus of each line of telegraph an earth battery is used, consisting, in most cases, of a zine plate, 6 ft. long, 2 ft. 6 in. broad, and 4th in. thick. The instruments and batteries are all connected by wire, coated with gutta percha, and of the same substance as the line wire itself. The instruments used are those—first, of Morse; second, of Siemens; 3d, of Kramer. The batteries are entirely those of Daniel. In all the principal telegraph offices a printing instrument and a colloquial instrument is used, but each, in turn, is worked by the one wire only, notice being given to the effect that the one or the other is about to be used, according to circumstances. Morse's is the printing telegraph employed, differing very little from that used in America. Those of Siemens and Kramer are both coloquial telegraphs, but Siemens's is chiefly used. A pair of these instruments are placed in the exhibition of manufactures, now opened in this town (Birmingham). There are altogether 35 stations already connected by the one-wire underground plan. The whole cost per English mile, from detailed estimates, furnished to me by M. Nottebohm, is under 400, per mile. Besides the Government lines of telegraph, most of the railway companies in Prussia have also their own telegraphs, but which are constructed according to the American system—namely: one wire, suspended from post to post along the railways; the average cost of constructing the telegraphs on this plan is under 200. a mile. A telegraph of this construction extends across the country from Hamburgh to Cuxhaven, a distance of 80 miles; but the disadvantages of wires being exposed are very serious, and were fully shown during t

the standard for all future telegraphs that may be constructed, both at home and abroad.

Before concluding this communication, I will briefly state that a plan, proposed by myself, for the introduction of the electric telegraph into the vast territory of British India is now under the consideration of the Hon. East India Company; and it is a curious fact that the general outline of such plan agrees so nearly with that of the Prussian States system, that had not my printed letter been sent to the East India Company before I visited Prussia, for the purpose of examining the telegraphic system adopted in that country, I should most likely have been accused of taking my plan from that model.

On the Manuacture of the Finer Irons and Steel, as applied to Gun Barreis, Swords, and Railway Axies, by W. Greener.—The first innovation on the old principle of manufacturing gun barrels entirely from old horse-nail stubs was due to the late Mr. Adams, of Wednesbury, who brought out what is termed Damaseus iron, which is constructed of alternate layers of steel and iron faggotted, drawn down into rods, then tortuously twisted, and when welded into barrels forms the Damuseus barrel. The success of this experiment, both in point of beauty and atrength, was so great as to be under estimated at 50 per cent. as compared with the strength of stub twist iron. The next experiment was to blend, more intimately than the above, steel with the horsenail stubs in the proportion of one to two of the latter. The paper described the mode of this: and then went on to narrate that the next and most important improvement in metals was the manufacture of gun barrels from scrap steel entirely, and for this purpose old coach wheels were generally in request; by clipping these into pieces, perfectly cleansing them and welding in an air furnace, a metal is produced which surpasses in tenacity, tenuity, and density, any fibrous metal ever before produced. The tenacity of it when subjected to torson in a chain testing machine is as 8 to 29 over that of the old stab twist mixture. The perfect safety of barrels produced from it is astonishing; no gunpowder yet tried has power to burst them when properly manufactured. These experiments had induced others on a more extensive scale; to effect this, mogots of cast steel were taken from the mill, made to No. 3 in the scale of carbonization. These, after rolling into flat bars, were clipped into small pieces, immediately mixed and welded as before in the air furnace, drawn down into rolls, and re-faggotted; these were subsequently drawn down, and were then ready for being made into gun barrels from this was perfectly safe—this was ascertained by experiments. It was discovered that the density ON THE MANUFACTURE OF THE FINER IRONS AND STEEL, AS APPLIED TO

noutr whether, if a piece of iron was at first perfectly fibrous, vibration or presure would ever change the structure of the metal. The beams of Cornish enines, for example, were subject to vast pressure; they never became crystalised; the connecting rod of a locomotive was subject to great vibration, strain and pressure, vibrating eight times a second when the velocity is 40 miles an our; he had watched the wear of a rod for three years, and no change was erceptible in the structure of the iron. He doubted, therefore, the correctness of the assumption made by the writer.—After a few words from Mr. ROBERTS a support of this opinion, the discussion terminated.

MINING IN THE OLDEN THES—NO. 111.

In the records of the "Collage of Arms," will be found the armorial lassing granted to the company by Dichick, Garter, Tooks, Clarrociaux, and Plower, felcle sure on a mount vert, a pillar of brasse between a your rampant gardenant, and a dragen rampant golde; in the chief a ryage of latten wire between representations of the college of the chief a ryage of latten wire between representations of the chief a ryage of latten wire between representations of the chief a ryage of latten wire between representations of the chief a ryage of latten wire between representations of the chief a ryage of latten representations of the representation of the sometime, and the representation of the representation of this company, any use of the society the same of the dark and whosever of this company, any use of the society the same of the dark and whosever of this company, any likewise for the particular of the representation of the

ciety for the Mineral and Battery works. You shall be obedient to the officers of the same, in all their lawful commandments, touching the said Mineral and Battery works and officers. The charge and business unto you committed, you shall to your power well and truly do. The secrets of the said society for Mineral and Battery works ye shall not betray, but keep; and in all things do justly and truly in the due execution of your office as servant. So help you God."

12b be continued to next seek's kining Journal.]

Mining Correspondence.

BRITISH MINES.

BARRISTOWN.—The branches in the end east of the slide are still divided and small; but very rich for lead—it will produce about 3 ewts. of lead per fm. The stopes in the back of the adit level are producing about 6 ewts. of lead per fm. In the rise in the back of the adit level are producing about 6 ewts. of lead per fm. In the rise in the back of the adit level are producing about 6 ewts. of lead per fm. In the rise in the back of the last few fathoms. In the winze sinking in the bottom of the adit level, west of the old workings, the lode is large, containing tones of ore only. We are driving the 24 fm. level, west of the engine-shaft, on a lode about 2 ft. wide, with a south underlay of 1 ft. to a fathom, composed of blende, carbonate of iron, and spots of lead; this end is within 9 fms. of Klin shaft, and the cross-cut which we have now commenced south of Klin shaft will, in about six weeks, be communicated with the 34 fm. level, and I have no done to that we shall have a good discovery about this shaft (as reported by Capt. Eddy) in a short time. There is a vessel discharging a cargo of coals here at present, which I hope will take our small cargo of lead away.

BEDFORD UNITED.—The ground in the engine-shaft is a little eased at present. In the 103 fm. level, east of Balley's winze; in this level west the lode remains without alteration—ix, 3 ft. wide, good work. There has been no lode taken down in the 99 fm. level east. In the 70 fm. level east the lode is 3 ft. wide, producing some aswing work.

CALLINGTON.—At the north mine, our progress in the 125 fathom level.

has been no load taken down in the form, level cast. In the 125 fathorn level cross-cut is rather slow, the ground being hard for driving. In the 125 fathorn level cross-cut is rather slow, the ground being hard for driving. In the 112 fm. level north we are opening good tribute ground; the rise in the back of this level south will produce 6 cwts, of silver-lead ore, but being near the boandary, we shall have to suspend this epd sonn. The lode in the 99 fm. level south is still disardered by a small cross-course; the lode in this level west, on Kelly Bray lode, is 1 fout wide, with spots of copper ore. In the 70 fm. level cast, on Kelly Bray lode, is 1 fout wide, with spots of copper ore. In the 70 fm. level cast, on Kelly Bray lode, the lode is 2 ft. wide, producing good stones of copper ores. The 50 fm. level east, on Kelly Bray lode, presents a more promising appearance than for some time past, the lode being 2 ft. wide, composed of pasch, spar, mundic, and spots of copper ore. The lode in the 20 fm. level ast is 1 ft. wide, producing good stones of copper ore. At the south mine, in the 135 fm. level north, we are opening tribute ground; in the same level south the lode is producing silver-lead cross. In the winze sinking below the 112 fm. level north, no lode has been taken down; we expect to hole this winze to the level below by the end of the present month. In the 99 fm. level south, the lode is 1 ft. wide, composed of spar, prism, and silver-lead ore. The lode in the 40 fm. level south is small and poor. The tribute department remains without any material alteration.

the 40 fm. level south is small and poor. The tribute department remains without any material alteration.

CAMBORNE CONSOLS.—The adit on the caunter never had so kindly an appearance as at this time; the lode is much improved, and will turn out a ton of good ore to a fm. The new lode has passed through Tyndale's shaft, as I have before, I believe, informed you; the shaft itself continues to give the most flattering indications in the shape of orey droppers, or feeders, promising a good lode in a deeper level, which we generally find to be the case when they are orey, like these; I think we shall cut these branches and lode in the adit by the end of next month. I saw glad also to report a very favourable change in the silver lode, and I have great reason to anticipate the pleasure of sending you a very satisfactory account of it ere long.

CARTHEW CONSOLS.—At the upper mine, the sumpmen have this week been engaged in clearing the 55 fm. level south, and putting penthouse in this level, for safety whilst engaged in dropping the lifts to the bottom of the sink below it. In clearing this level south so far as we have gone, I find, as I considered, the lode not worked above the back of the level, but opens very promising—indeed, far more so than in any level above; we are now in about 5 fms, and in the whole distance a beautiful lode in lead is in view. The 48 fm. level south is cleared to the middle shaft, but, consequent on a quantity of stuff having fallen down it, we are not yet able to open communication with the 38 fm. level south, I find no particular change this week. In the 28 fm. level south, I find no particular change this week. In the 28 fm. level south, I find no particular change this week. In the 28 fm. level act this point. Is driving the 28 fm. level south, I find no particular change this week. And the new pitches are being found far more productive than I expected in so short a time. The pitch, in the 10 fm. level, thin particular, has yielded a considerable quantity of rich work. At the lower mi

From its former appearance.

COURT GRANGE.—At Pen-y-cefn we have koled the winze between the 15 and 30 fms. levels, and are now drawing ore to commence dressing. This, the real commencement of all mining business, is a point of great interest to obtain. As soon as we shall see a larger quantity of ore at surface, I shall write in greater detail as to our prospects. The communication between the 15 and 30 fm. levels will now enable us to drive the latter westward, where I expect to find some of the best ore ground, as I before told you. All the engineering work is progressing rapidly and satisfactorily. We shall shortly be in a state to dress ore at Lleitynhen, so that we shall soon be selling ore from two of our mines out of the three now opened.

our mines out of the three now opened.

CWM ERFIN.—The stopes east of the engine-shaft, at the 20 fm. level, are worth \$\frac{1}{2}\$, per fm.

The stopes in the 10 fm. level, east of the engine-shaft, are worth \$\frac{1}{2}\$, per fm. The stopes in the 20 fm. level, east of the engine-shaft, are worth \$\frac{1}{2}\$, per fm. The stopes in the 20 fm. level, east of ditto, are worth \$10\$, per fm. The stopes in the 40 fm. level, east of ditto, are worth \$10\$, per fm. The 20 fm. level, east of the whim-shaft, is coor.

The stope in the back of the 10 fm. level, 25 fms. east of the whim-shaft, is worth \$1.2\$, per fm. The 20 fm. level, east of the whim-shaft, is worth \$1.2\$, per fm. The 20 fm. level, east of the whim-shaft, is worth \$1.2\$, per fm. The 20 fm. level, east of Roberta's winze, is worth \$12\$. per fm.; the 20 fm. level west is rather poor at present.

level west is rather poor at present.

DEVON AND COURTENAY CONSOLS.—The lode in the winze sinking in the bottom of the 40 fm. level continues large, 44 ft. wide, composed chiefly of white iron, mundle, soft spar, among which are some beautiful veins and spots of coated ore; in the rise in the back of this level the lede is 24 ft. wide, with a branch of yellow and black ore on the south part of fit; the lode is at present more soft, and the water from the lode is increased. In the erose-such driving north in the 50 fm. level, the men have intersected a lode 18 in. wide, earrying a flookan on the south part, and some strings of one in the lode—the cross-cut will be continued a little further, to make sure there is no other lode in the vicinity. The tribute pitches continue to look well, and without alteration.

Intersected a local—the cross-cut will be continued a little further, to make sure there is no other lode in the vicinity. The tribute pitches continued to look well, and without alteration. The following report was read at the meeting, held on the left inst, the particulars of which, with the accounts, were given in last week's Journal:—Since our last general meeting we have driven our 40 fm. level west on the general cheek of the same being from 2 to 3 ft. wide, composed principally of white iron, prian, and quartz, producing also in some places beautiful velus of yellow and cented ore—this end is supended for the present; in the back of this level we have risen (within 2 fms. of the present end) 3 fms. 4 ft., the lode being in this place also shout 2½ ft. wide, a part of which, from 4 to 5 in. wide, is good saving work, worth about 5½ per fm.; in the back of the same level, about 14 fms. to the cast of the former rise, we have also risen 2 fms. 1 ft. 7 in., making the total height risen above the level 5 fms.; the lode in this rise is 2 ft. wide, composed chiefly of gossam, in which is some very rich black and, grey ore, with some native and crystallised copper, some of which has been brought to the surface and dreased. In the bottom of the 40 fm. level we have sunk a winze 2 fms. 4 ft., the lode being from 4 to 5 ft. wide, containing a large quantity of white iron, with some black and casted ore interspensed among it; this winze was commenced with the intention of sinking it (if) practicable for water) through the bed of white from, with some black and coated ore interspensed among it; this winze was commenced with the intention of such kindly appearance as to justify a further and vigorous trial. In the back of orth 5 fm. lavel there has been rison and stoped some 3 or 4 fms. of ground, and a communication effected between the 40 and 50 fm. levels—the ground to the east and west of this rise is now set on tribute; in the same level we have driven north on the cross-course to intersect it; in the back of th

report was read, were given in last week's Journal.]

EAST BIRCH TOR (TIN).—We are stoping to the east of the cross-course, but little of the tode has been taken down; what we have broken is looking very good, and, from the present appearance of the lode, it is likely to make a large quantity of tin in depth and length. The stopes in the south lode still continue favourable.

EAST CROWNDALE.—The abant is sinking with all possible speed, and the lode improved in character, but still sparing for sinking. I have stopped atoping in the foction of the 17 m. level, and put the men to stope in the back, whence I think we shall got in enough to pay—the west and will be commented driving to-morrow. This post has brought offers for our tin, which is rather encouraging as to price, the highest being 44. per ton. The tin is on board the Truro Trude, and will leave Plymouth to-morrow, wind permitting. The quantity of fin will be about 5 tous 10 cwts. of best, and from 10 to 12 cwts. of seconds.

ESGAIR LLEE.—The lode in the winze, under the shallow adit, is at present poor. The north pare of the north tode, in the deep adit east, is much the same as when last reported. The lode in the stopes, in the bottom of the leep adit, east of the engineshof ore per fathern.

HOLMBUSH.—The lode in the 120 fm. level south is 3\footnote{1}, ft. wide, and will reduce 4 cwts. of lead per fm., but is suspended for a few days, and the men pat to rise HOLMBUSH.—The lode in the 120 fm. level south is 3\(\) ft. wide, and will produce 4 cwts, of least per fm., but is suspended for a few days, and the mere put to rise to hole to a pitch that is wrought on from the bottom of the 110 fm. level for sir. The ground in the 120 fm. level cross-cut south, towards the fiap-jack lode, is not quite a favourable as it was last weak. The lode in the 110 fm. level south is 2\(\) ft. wide, producing 5 cwts, of lead per fm. The flap-jack lode, in the 100 fm. level, east of the great cross-course, is 20 fm. wide, and is composed of spar, mundic, kilks, and spots of copper one. I fhink it necessary also to inform you we have succeeded in getting a vessel (Lessia, J. Heydon master) to ship the parcel of silver-lead area at Catstock Quay, next Eriday, for Wellington, Newcastle-on-Tyne, consigned to the Measrs. Pontifex and Wood.

for Wellington, Newcastle-on-Tyne, consigned to the Measrs. Pontifex and Wood.

KINGSETT AND BEDFORD.—Our lode, south of the rise, still continues to look well; the lode is about 3 ft. wide, with good work, equally so as when you were here; the copper lode still looks kindly, with spots of copper; the emutar lode continues to give good work, and looking very promising. We are getting on with the railroad with all possible dispatch, and hope to have it completed towards the rise by the end of another weak. I hope when we get nearer to the croas-course we shall have a change for the better in the copper lode, as it is reasonable to expect.

KIRKCUDBRIGHTSHIRE.—We have a good bunch of lead coming down in the back of the 62 fm. level, west of Sewart's, with very kindly ground about it; the lode in the 62 cast is about 3 ft. wide, with a small sib of lead in the middle about 1 or

good many picknes.

LAMHEROOE WHEAL MARIA.—The engine-shaft we shall commence driving at the end of this menth, when our shaft will be down to 60 fms, the non having been promised a premium of 1l. per week, if they will get under the eres-course by that time, so as to enable us to drive, and we hope by the end of October to intersect the great lode. I regret to say we had we wak had a breakage of the horizontal read, leading to Davey's shaft, which hindered the shaking in that shaft for one week, until the water was forked; this being now completed, the men are sinking in this shaft, and have been so for the past week, and the work is going on favourably, but some of, the men having been suffering from the prevailing epidemic has also been sunformed reams of retarding our sinking, but the men are all now heartly at work.——Sept. 26.—By Saturday mat the engine-shaft will be sunk to the 60 fm. level, and Davey's to the 50, when the driving towards the various ledes will essumence; and it is confidently expected they will be intersected, by the end of October, and their quality and value fully ascretained. There is a flood of water, like a shower-bath, pouring down; the difference in the temperature of the water on the north and south sides of the engine-shaft is searcely credible—that coming from the quarter next the lode being quite tepid, which, it is hoped, is a good onen. After seene unsavoidable delays, owing to the water, the work is now progressing in the most assistanceory manner.

omes. After some unavoidable delays, owing to the water, the work is now progressing in the most satisfactory manner.

LE W1S.—The lode in the engine-shaft, sinking below the 70, is 2½ ft. wide, producing some occasional stones of tin. The lode in the 70 cast is 18 in. wide, saving work; the 70, cast of the sump-shaft, on the south branch, is worth 35, per fon; the 70, cast of the sump-shaft, on the south branch, is worth 35, per fon; the 70, cast of the stopes in the back of this iterd are worth 151, per fin. The 60, cast of the sump-shaft, on the south branch, is yielding good quality work, and driving at 8s. tribute; the lode in the 60 cast, on Cock's branch, is mail and unproductive; the stopes in the back of this level are worth 151. The 50, cast from the sump-shaft, on the south branch, is opening moderate tribute ground; the 50 cast, on Cock's branch, is worth 65, per fin.; the south lode, in the 50 cast from Oak shaft, is 10 in. wide, grounding tin to about equal the cost of driving. The lode in the 40 cast, on Cock shaft, is 18 in. wide, saving work; the 40 cast, on Cocks branch, is driving at 10s. tribute; the lode in the 40 west, on Cock's branch, is 16 in. wide, ground in general is looking well.

LOSTWITHIEL CONSOLS.—The water has so interfered, with the pro-

branch, is if n. wise, and work of, per fm. The tribute ground in general is looking well.

LOSTWITHIEL CONSOLS.—The water has so interfered with the progress of the mine, as to make it difficult to report anything satisfactory, add to which the ground has been again ruinously hard; within the last three days it is better, and the lode again recovering its first appearance, improving every day.—Sep. 25.—thave been underground this day, and looked narrowly at the lode, and must say it looks promising to make copper ore; there is at present spots of ore, with good looking spar, peach, and plenty of capels—lode very hard, and ground by it stiff. A change of ground is wanted for ore, and is expected in 10 or 12 fms. more driving, seconding to the calculation at surface we have a bit of soft ground now, and the lode gets larger at once; and although wrung up much, is if. which, take it up and down: it is expected to come in contact with another lode within that space. I think there is good ground shead; the lode is also discharging plenty of water—price for driving 71. 10, per fm.

MENDIP HILLS.—I have no particular change to communicate in any part of the company's property since my last report. In Charterhouse Valley the bed of also stuff, which we are now opening through, are between 15 to 16 ft. thick, producing some very good slags, and a quantity of good quality almes. We have completed the incline plane and railroad at Ubley dressing floors, and I have this morning erdered the incline plane and railroad at Ubley dressing floors, and I have this morning erdered the incline plane and railroad at Ubley dressing floors, and I have this morning erdered the expensers to remove that of Blackmore.

the incline plane and railroad at Ubicy dressing floors, and I have this morning erdered the carpenters to remove that of Blackmore.

OLD WHEAL PROSPER.—We have, during the past three weeks, been sinking on a fin lode in the old Commerce adit, which is drained by the Polgooth engine, and intersected a branch about 8 inches wide—very fine work ludeed; we have had it stamped out, and it produced 1200 gals, of tin to the 100 sacks of work. We shall sink about 5 fins, deeper, and then set a tribute plich at about 7.8 fol. in It.; this will not interfore with the other works, but assist to keep the stamps going night and day.

ROCHE ROCK.—Since my last letter we have cut another very fine tin lode, which will be worked on as soon as the engine is up on our present workings; the lodes hold down very well, the average produce being about 5 ewis, of tin to the 100 sacks. We have again set the whole mine on tribute for three months, at 10a. in It. Our last in realized 35f, per ton.

SOUTH WALES MINES.—At Dalwin, the south, or the Frongoch lodes.

alised dor, per ron.

SOUTH WALES MINES,—At Dalwin, the south, or the Frongoch lode the deep adit, east of Rhydnet river, is looking very promising, and is producing some

wing work for copies over.

SOUTH WHEAL TRELAWNY.—The engine-shafe is in course of sinking r nine men—sunk below the 40 fm. level 4 fms., ground much the same as last reported, ill favourable, in a deep blue killas strata. There is a little increase of water. Everying is in a regular course of working.

sing is in a regular course of working.

TAMAR SILVER-LEAD MINES.—The engine-shaft is such 7 fins. below to 190 m. level. The 199 end is aspended for the present, and the men put to rise, order to hole the winze sinking from the level above. In this winze we are opening orund that will set to advantage, besides facilitating the sinking the shaft, and diving seemd. The 160 end is still in disordered ground, and unproductive. In the 145 end is de lode is 34 ft. wide, producing work of a moderate quality. In the 135 end the lode 3 ft. wide, 191 at the work. At North Tamar, in the winze sinking below e 70 fm. level, the lode is 3 ft. wide, sprinkled with ove. In the 70 fm. level, diving print, both ends are presenting a favourable appearance; in the same level south, the dis 3 ft. wide, 6 in. of which is producing work of a promising description. Our last racel, or August ore, weighing 32 tons 14 cwts., was sold to the Tamar Smalting Comuny, at 184, 198, 64, per row.

lode is 2 ft. wide, 6 in. of which is producing work of a promising description. Our last parcel, or August ora, weighing 89 tons 14 cwts., was sold to the Tamar Smalting Company, at 181. 19a. 6il. per ton.

TINCROFT.—In Palmer's shaft, sinking below the 90 fm. level, on Eastpool lode, the lode is 4 feet wide, with good stones of copper ore. In the 90 west the lode is 2 ft. wide, worth 31. per fathom for copper. The lode in the 35 fm. level west the lode is 3 feet wide, worth 91. per fathom for copper. The lode in the 35 fm. level, driving west towards Stainsby's shaft, is 1 ft. wide, worth 34, per fathom for copper ore; in the wines sinking below this lovel the lode is 1 ft. wide, with spots of copper ore; in the wines sinking below this level, the lode is 5 ft. wide, worth 32, per fathom for copper. At North Tincroft, the engine-shaft is sinking below the 100 fm. level; the lode is 5 ft. wide, worth 121, per fathom for copper. In the 100 fathom level east the lode is 4 ft. wide, worth 11, per fathom for copper. In the 100 fathom level, east of spines with 10, per fm. for copper. In the 100 fm. level, it has 100 fm. level, the lode is 24 ft. wide, worth 101, per fm. for copper. In the 100 fm. level, west of which lode is 4 ft. wide, worth 101, per fm. for copper. The 90 fm. level west is worth 91. per fm. for copper. On Highbury of lode, in the 119 fathom level, east of spines significant shaft, the lode is 5 ft. wide, worth 161, per fm. for copper. In the 142 fm. level, east of Martin's east shaft, the lode is 4 feet wide, worth 11, per fm. for the stope fm the back of this level, east and west of the shaft, are worth 181, per fathom for tin; it he stopes in the back of this level, east and west of the shaft, are worth 181, per fathom for tin; it he stopes in the back of this level, east and west of the shaft, are worth 181, per fathom for tin; it he stopes in the back of this level, east and west of the shaft, are worth 181, per fathom for tin; the stopes in the back of this level, east and west of the shaft

with stones of ore, and is kindly.

WEST WHEAL JEWEL.—The 85 fm. level, west of Williams's cross course, on Wheat Jewel lode, not taken down in the past week.—when last taken down over 13 fp. per fm. The 70 fm. level, west of Williams's cross causes, not taken down the past week.—when last taken down the past week, The 47 fm. level east, on same lode, worth 3f, per fm. The deep ast west, on same lode, unproductive. The deep ast, west of Tragoning's shaft, on Tolcan tin lode, not taken down in the past week. The stopes in the back of the 12 fm. level west of Pryor's winze, or Telearne tin lode, worth 192, per fm.; the stopes and of the winze, in the back of the 12 fm. level, west of Tragoning's winze, worth 194, per fm.; the stope in the bottom of the 12 fm. level, west of Tragoning's winze, worth 194, per fm.—the stopes are working on tribute.

WHEAL ANDERTON.—The last of the stope in the back of the 12 fm.—thes

in the bottom of the 12 fm. level, west of Tregoning's winze, worth, 18t, par fm.—stees stopes are working on tribute.

WHEAL ANDEKTON.—The lode in the 80 fm. level, west of the engine-start, still continues large, worth about 10t, per fm. fer fair, the 80 stat is in a very settled state of ground a therefore. I am pratty confident of being to the east of the great cross-coarse, or sonfigued piece of ground, which is 16 fms. thick. The lodes in the 80 stat is in a very settled great way the state of ground and store of the great state. In the state of the great state is 16 fm, with the state of the great state of

stamping department as fast as possible, having several tens at surface to cleam.

WHEAL BENNY.—I set this month the winze to sink 4 fins., at 3!, per fin., and will be down the given depth by Saturday; the ground being favourable for sinking, and having no water to contend with, we shall continue sinking for some 5 or fins. deeper for about 3.t. to 4!, per fin., where I intend to drive to intersect the lode.

WHEAL BRIDFORD (LEAD).—We are still driving up the adit in very good ground, and will take about a menth more to get to the lode—ground favourable. WHEAL LAWEROKE.—The lode in the adit still improves. Yesterday we broke some good stones of silver-lead; and I hape very shortly to have the lode for dreading. We have again commenced similing the white-shaft, and find a great marphenesses or mundle, with good spots of lead intermixed in the flookan, and a very kindly ground.

WHEAL MAY.—We are now fully encaused in clearing up the old works.

kindly ground.

WHEAL MAY.—We are now fully engaged in clearing up the old workings ready to recommence driving the present additional tending the first anoth silver-lead lode, which we may expect to cut in about two months; this done, we shall sink a shall for air, and then drive on the course of the lode cast, until we interact the great cross-course; the probability is, that at this point we shall raise a considerable quantity of aliver-lead ore; I shall thus a advise to drive on the cases of the cross-course, and the great north copper lade; we shall thus, in a very short times, and with a very small outlay, develope the mineral properties of the sett.

WHEAL PENHALE—I am much pleased in being able to inform you that we (to-day) find a decided imprevement in the ground in the engine-shaft, whilst the loss continues much as last reported. In the 20 fm level north we are again getting in each of the continues much as last reported.

WI of our it will produciode, an operati tisfacto

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the lode north of the slide, which, as noticed in my last, hove it to the east, and find very good stones of lead in it; in the end of this level senth we have not yet get into the main last again, but from the pientitude of water burwing from the western side, are expecting to do so daily. We have made very good progress is slaking; the winsein the bottom of the 10 fm. level north this week. The tribute pitches are yielding well, from which very rich work in lead and copper has been drawn during the week.

WHEAL TREHANE.—The lode in the 68 fm. level south is much improved, now worth 221, per fm., and the ground moderate far driving; in the north end the lode is worth the per fm. and altogether very promising. We have resumed sinking Kelly's shaft from this level, in which the ground is vary favourable. In the stopes in the back of the 55 fm. level, and also in the back of the 55 fm. level, and also in the back of the 55 fm. level, and also in the back of the 55 fm. level, and also in the back of the 55 fm. level, and also in the back of the 55 fm. level, and also in the back of the 55 fm. level, and since in the order of the control of the shaft, the lode is 3 ft. wide, worth 10, per fm.; in the same level south 16, per fm.; in the water of the shaft, the lode is 3 ft. wide, worth 10, per fm.; in the same level south 16, per fm.; in the wines in the bottom of this level, north of the shaft, the lode is 3 ft. wide, worth 10, per fm.; in the same level south 16, per fm.; in the water the lode is 3 ft. wide, worth 16, per fm.; in the same level south 16, per fm.; in the shaft, the lode is 3 ft. wide, worth 10, per fm.; in the shaft, the lode is 3 ft. wide, worth 10, per fm.; in the shaft is the lode is 3 ft. wide, worth 10, per fm.; in the stopes in the back of this level and the lode is 3 ft. wide, worth 10, per fm.; in the stopes in t

FOREIGN MINES.

FOREIGN MINES.

LINARES LEAD MINES.—Linares, Sept. 15.—One of the boilers arrived at the mines on the 12th finst., and is now being fixed in its place. On Monday the masons will begin building the finars, which will, I hope, be accomplished next week, and very soon after I expect the engineer will have made the necessary connections with the engine. The weagon has returned to Saville for the other boiler, but we shall commence working without waiting its arrival.

soon after I expect the engineer will have raise the deceasely connections with and one gine. The weagon has returned to Saville for the other boiler, but we shall commence working without waiting its arrival.

NATIONAL BRAZILAN MINES.—Cacaes, July 2.—The operations in the mining department have been carried on in the usual way, with the exception of the levels towards site Terra Cabida, which will be herein mentioned, and we are happy to inform you that our endeavours have been crowned with success. On the 23d ult. a beautiful vein of gold was found at the eastern end, from which samples of a most promising character were obtained; and, judging from the present appearance of the layer, and the locality in which it was met with, we have every reason to expect great riches from it. The distance of this level from Irving's western end, is no more than about 4 fms., which, from its proximity to these workings, might be thought an unfavourable circumstance; but, by refurring to the small plan, No. 2, forwarded on the 12th April last, and locking at the dip of the excavations (say from H to R through the F stope) in the longitudinal section, it will be seen that this vein passes considerably below all the excavations made at that mine, forming a line, together with Harrley's stope, and a very large one too, of the most promising ground hitherto seen at this quarter; judging from the locality in which gold has generally been found in this mine, the veins here are beautifully situated, the lower one laying on a floor of unproductive hard fromstone, and others are seen in layers shelving one above another, as shown in the transverse section No. 1 (see report 12th January last), so that without some unexpected turn in the lock, by which means the headwall might come in contact with the veins, we have now a line of ground open, unequalled in richness by anything before seen by us at the Serra Velha. In the report of the 12th uit. (relating to Harrley's stope), we informed you of the probability of these veins being antis

 Cocace produce, 10 days, ending 12th May
 Mks. 2 6 1.55

 Ditto ditto
 23d ditto
 32 0.30

 Bitto ditto
 33d June
 4 0 4 4 7

 Ditto ditto
 34d June
 4 0 2 7 70

 Ditto ditto
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 45 2 7 70

 Ditto ditto
 33d ditto
 13 1 5 56

 Ditto ditto
 34d ditto
 34 ditto

 Ditto ditto
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 34 July
 17 3 1 17

ASTURIAN MINING COMPANY.

An adjourned meeting of shareholders was held at the offices, on Tuesday the 25th inst., pursuant to adjournment.

The advertisement convening the meeting, and the minutes of the last meeting appointing the committee, having been read, Col. Bire rose, with the view of protesting against the confirmation of the minutes, as in the absence of any notice in the advertisement convening the last meeting, of the intended motion

ing appointing the committee, having been read, Col. Binz rose, with the view of protesting against the confirmation of the minutes, as in the absence of any notice in the advertisement convening the last mesting, of the intended motion to appoint a committee, he considered such appointment was illegal, as the mesting should have been convoked especially for that specific purpose.

Mr. Moonse (the chairman of the committee), however, set the hon. proprietor right on this point, expressing himself fully satisfied that the appointment was legal, as any shareholder present at a meeting was fully empowered to move a question, and take the opinion of those present on the same. He complained of a course which had been attempted on the part of Col. Biré to pack the meeting, by splitting votes in transferring shares to mere nomines, which was indignantly denied by Col. Bires, who declared no such attempt had been made on his part, although, as the holder of 2000 shares out of 9500 of which the company was composed, he felt that he should have been fully justified in adopting such course had be thought fit, as it was absurd to suppose that his interest should be only represented by being placed on a level with the holder of five shares—A warm discussion caused, the chairman refusing the demand of Col. Biré that as crutiny should take place, and in the end the minutes were ordered to be recorded, whereupon Mr. Moorks proceeded to read the report prepared by the committee, of which the following abstract will be found to convey the main questions treated upon:—

The stream of the committee, where the minutes were the minutes were the minutes of the committee with the official test and dangers with which, its limits, the company was found to be on all sides surrounded. The report of the former committee was sridently the official that their labours, was found to be always from which the present committee might date their labours, was found to be always from which the present committee might date their labours, was found to

command and in cereboration of the options somerations by the committee, reference annum; and in cereboration of the options somerations by the committee, reference annum; and in cereboration of the committee, reference and the committee of the

BOLANOS MINING COMPANY.

A general meeting of proprietors was held at the London Tavern, on Wednesday, the 26th instant.

Sir Robert PRIOR, Bart., in the chair.

Mr. HEAD (the secretary) having read the circular calling the meeting, the Charkman observed, that the shareholders were as well aware as he was of the cause of their present meeting. They knew from the dispatches the state in which the concern was; they had not, since their last meeting, been able to ent subscription. The directors could not possibly go on without 15,000%. The amount had fallen considerably short; they had only obtained between 3000L and 4000L, and the amount was nearer the former than the latter. It was very natural that the owners of the mine should be dissatisfied

with them; they must either work the mine, or give it up; if abandoned, they must dissolve the company. He must say that he felt great surprise at the hesitation which had been displayed by the shareholders in not coming forward; it was not like as if they were asking for capital to put in a deep mine, about which they knew nothing. This they knew was a good mine, and the sum they were asking appeared almost too small to demand; but the times were altered, and it was more difficult to obtain 30,0001. They had been called together to ascertain the best mode of carrying on the establishment; it would have been some years since to have raised 300,0001. They had been called together to ascertain the best mode of carrying on the establishment; it would be suitcidal to abandon a mine with such good prospects. The offer and resolutions, on a former occasion, had been based on the principle, that the ahareholders were to be entitled to one share for every old share held by them—the whole of the 31 to be returned out of the earliest profits, previous to any dividends being paid on the old shares. Those who came forward ought to have greater advantages; those who served them in a time of emergency ought to her warded for the risk; those who were fet out would have no one to blame but themselves; they had still, however, the power to subscribe. A number of the original shareholders had died, and there were a large number of shares in the hands of trustees, who, from the nature of their office, could not act so decidedly as they would wish. It was quite evident that the sams they had were not sufficient. On hearing the resolutions, they would see that most certainly a decided preference had been given to the new capitalists. The directors had always endoavoured to do their best to forward the interest of the shareholders, and he was convinced that, if they have were drainly and they were driving on the cross-cut.

A Sharamolder inquired if they had received by the last mail any dispatches?—The Ciralman are all have a profi

give due notice, by advertisement, in a least two morning newspapers, of the number of shares so to be disposed of, and the terms upon which they will be issued; and that the directors be authorised, if they shall see fit, to give a preference to such of the shareholders as shall have already subscribed under these resolutions.

Mr. Filed stated that there were several reasons why the directors could not obtain the money; they did not give any pledge they would not commence operations, unless they had 25,000 L. He must premise that he did not come there as a shareholder, but as a representative of several who were large holders. He would inspire confidence, if they could infuse a little new blood in their body; they had not administered the affairs of the company in an efficient manner. If they were to bring forward men of good character and standing in the city, the public would have more confidence. Instead of the project of raising 42,000 shares at 1L, he thought it would be better to raise 25,000 at 30s.; if they were subscribed, it would give 21,000l. Suppose the money not necessary, would the assets of the company be divided preferentially? at 30s., he should say, at would be a good investment.

The CHAIRMAN said, when everything was at a discount, they had been obliged to trust to El Bote. On account of water and difficulty of veins, they had not obtained such good returns or such a full development as they had anticipated. As far as regards the directors, without acknowledging that there had been any remissness on their part, he should be happy, either that new directors should be taken in, or some of the old ones should be ballotted out. He could not but view a second failure with great alarm; he thought, if the two instalments on the 42,000 shares were paid up, the third might not be necessary. He was aware that, at this present time, directors were not generally in very good dour. He should be afraid of the plan of the 30s, share; it would not do to fail this time; it would be good for all parties if

The CHAIRMAN did not object to Mr. Field's plan, but it was essential for them to get the money. It was not a gloomy view they were taking of the state of affairs; the money must either be had from the profits of the mine, or by calls.

A Shareholder stated they had most favourable reports of their mines from very high authorities; he need only mention the name of Mr. Shoolbred. An impression had got abroad that the capital to be raised would not be spant on El Bote, but on other works, as trials. He was aware this was not the fact but he merely stated it, to give the chairman an opportunity of putting him right,—The Chairman stated that El Bote was their only mine.

Mr. Field, in offering his suggestion, did not wish to impede the resolution of the directors. He thought the shares would be more valuable if less than 42,000/. was raised. If 30,000/. was all that was required, he thought the last instalment should be fixed at a further period than the 16th of January. He thought, then, every one would subscribe; in fact, he should recommend all his friends to do so.

Mr. Sterr asked, whether they were under liabilities?—The Secretary observed, they were in debt for the working capital.

Mr. Sterr asked, whether they were under liabilities?—The Secretary observed, they were in debt for the working capital.

Mr. Sterr asked that it would be a complete swamp of the concern. The introduction of new shares would be of advantage to those who could afford to take up the shares; but what position would they be in who could not take them up?—Mr. Fireld said, it would not be saie to go on with 15,000%; he thought the directors should give a pledge they would not undertake anything unless they had 21,000/.

The CHAIRMAN said he thought they should have so much confidence in the directors as to leave to their discretion without exacting any pledge. They must have a poor opinion of them if they could not trust them so far.

Mr. Field said he did not require a resolution, but simply their word; he thought the directors viewed

BRYN-AR-IAN MINING COMPANY.

BRYN-AR-IAN MINING COMPANY.

At a general meeting of shareholders, held at the mine, on the 17th inst.—Mr. R. TREDINNICK, in the chair.—Capt. E. Trevethen having read his report, a statement of accounts was presented, showing—Coat for Jan., 984. 14s. 6d.; Fabruary, 64. 12a. 7d.; March, 118l. 11s. 7d.; April, 246l. 8s. 8d.; May, 172l. 6s. 3d.; June, 299l. 9s. 8d.; July, 157l. 6s. 11d.; Angust, 188l. 10s. 8d.—1200l. 8s. 11d.—By amount agreed to be expended on the 12th February, at a meeting held at Wrexham, 1000l.; Sims, Williams, and Co., on account of ore sold the 17th August, 158l. 8s. 9d.—1168l. 8s. 9d.—leaving balance end of August, 48l. 0s. 2d.—The accounts were approved and passed; the management of the mine continued in the hands of Messra. R. Tredinuick, T. Field, and J. A. Tielens; and Mr. J. Tredinnick appointed purser and clerk, at a salary of 5l. 5s. per month. A call of 10s. per share was made, and no share to be transferred until it be paul.

The following is the report read to the meeting:—

I have much pleasure in handing you my report of this mine this day, the more so from the fact of the general meeting being held on the mine, the shareholders have had the opportunity both of testing its accuracy and of judging for themselves; it is known to you all that when the meeting was held at Wrexham, on the 12th February, 1000l. was subscribed for the erection of machinery and developing the mine; since that time we have sank the engine-shaft is sense. below the addit level, where the lode is explored for 18 fms. east of and 17 fms. below the addit level, where the lode is explored for 18 fms. east of an arrow of the sense for the side of a hill 1400 feet bove the level of the sen; for this distance, 35 fms. in length, the lode has produced from 10 to 30 cwts. of lead ore per failmon, worth about 104, per ton; cast and west of the outgine-shaft a 10 fm. level has been above 30 tons of robots of the sen; for this distance, 35 fms. in length, the lode has produced from 10 to 30 cwts. of lead ore per fail

GREAT POLGOOTH MINING COMPANY.

A meeting of adventurers was held at the mine on Friday, the 21st inst. hen the finance committee laid their accounts for the last two months before adventurers, showing—

Dn.—Paid in August and September, cost of June and July—wages and incidentals Carriage and horse work Coals Materials and stores Rates, rents, dues, &c.	£2787 169 410 545	7	10 8 0 0 0
Total	£4131	12	6
Ca.—Tin sold in August and September (128 ions 6 cwts. 1 qr. 7 lbs.) Copper ditto in August (12 tons 8 cwts) Arsenic and old stores Surplus from last account	45 29	16	0
Total£1460 7s. 5d.		19	11

A dividend of 4l. 10s. per share was declared, leaving 3081 7s. 5d. to credit of oft account for the November meeting, with assurance of continued progressis improvement in the mine.

GREAT ROUGH TOR CONSOLS MINING COMPANY.

GREAT ROUGH TOR CONSOLS MINING COMPANY.

A general meeting of shareholders was held at the office of the company, Threadneedle-street, on Monday, the 24th inst.—John Thomas, Esq., in the chair.—The minutes of the last meeting having been approved, the cost-sheets for four months, ending July—showing balance of 274l. 10s. 9d. against the adventurers—were passed; and a call of 2l. per share was made.

The following report, from Capt. S. Richards, was read to the meeting:—Sept. 22.—The 45 fm. level is now extended east from Morris's shart about 9 fms.; this dirrage has been carried on the north part of the lode, from which some good stones of greys and black ore have been produced. The ground in this level is now easier of progress; and, judging from the 35 fm. level above, there is every reason to expect an improvement at no great distance from the present end. The cross-cut at this level, towards the north lode, is now diview upwards of 17 fms. from the shaft. In carrying on this cross-cut, several small branches have been met with, from each of which stones of ore have been broken; the ground in this end is also improved for driving, and it is probable, by the end of the present month, that this lode will be reached. In the 30 fm. level, now about 35 fms. to the east of Morris's shaft, we are continuing the drivage on the north wall, and opening into the lode in places which contain principally caples; and, for the last 15 fms. driven, does not assumes of attering an apparance as the former 42 fms.; and it appears that the greatest chances of success are east, at the 45 and on the north lode, which we expect to intersect by the consecut in the course of this month. This lode had a favourable appearance in the shaft when pa sed through, about 30 fms. above the present bottom of the mine. The accompanying cost-heet for August month, amounting to 1706. 6s. 6d., will be about the average monthly cost while the mine is being carried on, to prove the different parts now in operation.

TREVISKEY AND BARRIER MINING COMPANY.

The usual bi-monthly meeting was held on the 17th inst., when the follow

ing statements of accounts and reports were presented:-			
By amount of ore sold (less lord's dues, 1951. 1s. 7d.). £2145 18 2 Barrier adventurers' m iterials, & sundry spales & fines 5 16 0—	£2151	14	2
Labour cost for June and July			ľ
Income tax		5	5
Add balance in hand end of May	£ 458 108		9
By dividend of 4L per share	£566 480	13	0
Leaves now in hand	£86	13	1

Leaves now in mana

Treviskey Report.—In Michael's shaft, which is now it ims. below the see, and producing stones of ore. In the 250, east of the above-named shaft, the lode is 20 in. wide, but unproductive. In the 248, 33 fms. east of the shaft, the lode is 3f. wide, and worth 36f. per fm. In the 236, 44 fms. east of the shaft, the lode is 2f. wide, and turning out 2 tons of ore per fm: the winze in this level is communicated to the 248 fm. level, and the men are now stoping ore west of this winze, which will produce 4 tons of ors per fm. In the 224 fm. level the lode is 1ft. wide, but unproducive. We have not yet inter-erted any lode in the 40 fm. level, driving south of Williams's sump-shaft. We have 16 men cutting ground in the 236 fm. level, for the new flat-rods from Harrey's to Michael's shaft, which we hope to complete, and put the rods to work about the end of December next. We sampled, on Wednesday last, 550 tons of ore, and hope to raise 350 tons for September and October.

BARBIER.

£13 2 5

Labour co	st June and July		 	 	 £13	2	5			
Francoson	admontument				- 6	- 6	8.			
ncome To	ax and sundry pay	ments	 	 	 25	3	9-	£14	11	7
By amour	nt of ores sold, less	dues	 	 	 			23	12	3
	Showing loss of		 	 	 			£20	19	4
Due to pu	rser end of May									

WEST DOWN CONSOLS MINING COMPANY.

WEST DOWN CONSOLS MINING COMPANY.

At a meeting of adventurers, held at the mine on the 24th inst., the accounts were examined and passed, showing—Balance due last secount, 263t. 4s. 10d.; labour cost July and August, 53t. 17s. 8d.; merchants' bills, 10t. 13s. 6d.—327t. 16s.—By calls, 115t.; dues on calcining tin, 1t. 11s. 8d.—leaving balance against the mine, of 20tl. 4s. 4d. On the resignation of Mr. Diamond, as purser, it was resolved, that the shareholders are much indebted to that gentleman for his perseverance and attention, and his bandsome conduct in not having claimed any remuneration for his services. Capt. J. Carpenter was appointed agent to the mine in the room of Capt. Stephen Paull, resigned. A call of 5s. per share was made.—[We shall give the report in our next.]

Consolidated Mines.—The usual two-monthly meeting of adventurers was held at the account-house, on the 19th inst, when the following statement of accounts for July and August were passed, showing—Ores sold, less dues 6817t. 5s. 2d.—Balance due at last account, 123t. 4s. 3d.; labour cost, &c., 3979t. 2s. 2d.; merchants' bills, 2054t. 18s. 6d. = 6157t. 4s. 11d.: leaving balance in favour of the mine, 660t. 0s. 3d.

THERAVEAN.—At a meeting of adventurers held at the account-house, on assalsy last, the accounts were examined and passed, showing.—Balance end 'June, 9571. 7s. 4d.; ores sold, June and July, less dues, 19971. 8s. 8d.; sun-y credits, 2851. 7s.—90991. 18s.—Costs and merchants' tills, July and Aug.

or June, 1971. 28. 4d.; ores sold, June and July, less dues, 19071. 38. 8d.; sundry credits, 232. 7s = 30991. 18s.—Costs and merchants' bills, July and Aug., 19671. 2s. 6d.: leaving balance in band, 1132. 15s. 6d.

TRETHELLAN.—At a meeting of adventurers, held on Tuesday last, the accounts were submitted and allowed, showing—By balance from last account, 342. 12s. 2d.; ores sold May and June (less dues), 947. 0s. 9d.; West Trethellan adventurers for materials, &c., 1691. 9s. = 14651. 1s. 11d.—To costs and merchants' bills for May, June, July, and August, 9531. 2s. 9d.: balance in favour of adventurers, 5111. 19s. 2d.

West. The supplies of the su

wour of adventurers, 5111 19s 2d.

WEST TRETHELLAN.—At a meeting of adventurers, which took place on Tuesday, the accounts for eight months, to the end of August, were examined and passed, showing.—By balance from last account, 1851 14s .5d.; ores sold (less dues), 8411 18s. 2d. = 5271 12s .7d.—To costs and merchants' bills, 4631 15s 11d: balance carried to credit of next account, 631 16s .8d.

Wheat Robins.—A meeting of adventurers was held at Webb's Hotel, Lisard, on Wednesday last, at which the purser's accounts were examined and assed, and the necessary steps taken for obtaining payment of arrears of calls, scharging outstanding liabilities, and for finally winding up the concern.

Pasta Accident at Aberdays.—Last week an accident occurred in one of the selection.

Panal Accident at Aberdary.—Last week an accident occurred in one of the mine pits which a Cornishman was killed. His death was occasioned by a fall of the roof. On a body being washed, 70 sovereigns were found concaded in his lecthes. A large sum aring the bad times for any man in such an occupation to have been possessed of.

MEXICAN AND SOUTH AMERICAN COMPANY.

SIR,—A short time back, the Mexican and South American Company for-cited, for non-payment of a call of 1L, and sold or advertised for sale by ten-

feited, for non-payment of a call of 1L, and sold or advertised for sale by tender, a large number of their shares. Last week another call of 1L par share was made—making 9L per share called up.

The affairs of this company have always been kept dark. The first 7L per share raised were lost, how or by whom is unknown, out of this affair. The calls now making are said to be for the purpose of carrying on smelting operations on the west coast of America; but no information is given as to the money already laid out, the greater sum required, or what is of first importance, the number of shares upon which all calls have been paid. It cannot be said that these remarks are made to depress the value of the shares, as they are not worth a penny a piece. I address you with the forlora hope of obtaining some light to guide me in determining to pay this call, or allow my shares to be forfeited; and I do not think it is too much to ask the council of ten, or the council of three, who receive and expend their calls, to let the share-holders know—

the council of three, who receive and expend their calls, to let the share-holders know—

1. How many shares have been forfeited, and how many the company now consist of, fully paid up to the last call?

2. How much capital has been laid out on the smelting speculation?

3. How much more will be required for the same object?

4. Has the company any other irons in the fire?

These queries will, no doubt, be thought very impertinent by the directors of the Mexican and South American Company; but they will not be considered unnecessary by those who had cut their eye-teeth in 1826, and now as old as "Poles," remember the brilliant prospect of the Anglo-Maxican Company; the Zacatecas Company, in which it had a large share; the Columbian Company, and its child, the New Granada Company; ending, for the present, with the Minas Geraes Mining Company. They have all carried on as long as money could be raised in England, under the most glorious anticipations of certain success at an early future. Like bubbles, they burst, leaving a bubble's legacy. If the Mexican and South American Company is worthy of a better fate, its managers can have no reason to conceal the amount of its available capital, and its estimated expenditure.—A Sharreholder: London, Sept. 20.

SOUTH WHEAL JOSIAH MINING COMPANY.

SOUTH WHEAL JOSIAH MINING COMPANY.

Sig.—I should not have troubled you with any remarks on the scurrilous letter of your correspondent, "Jacobi Vox," had it not been for the few shareholders living out of this neighbourhood, who might fancy, were I to remain silent, there were some foundation for them. On referring to your valuable Journal, in which my report, read to the meeting of adventurers on the 25th of August, as referred to by "Jacobi Vox," I see no statements respecting any quantity of ore the lode would turn out per fm., or anything approaching to it. You state, in the remarks appended to "Jacobi Vox's" letter, you have no hesitation in saying, that the accredited agent (myself) of the mine was the author of the supposed report quoted by "Jacobi Vox," dated the 25th August; but, by referring to the above report, in the Journal of Sept. 1, you will see they bear no resemblance. I have no hesitation in saying, that my reports to you were fully borne out by the appearances of the lodes at the different times they were written, and will require some one of more mining experience than "Jacobi Vox's" respectable Tavistock solicitor to overthrow. Of course, I cannot be considered responsible for any of your other correspondence. I unequinvocally deny this adventure being a flash one, as termed by "Jacobi Vox's' Tavistock solicitor. One thing I can assure you, Mr. Editor, should we be so fortunate as to get a lasting course of ore, it shall not be flashed away in a law suit, as that splendid course of ore, it shall not be flashed away in a law suit, as that splendid course of ore, it shall not be flashed away in a law suit, as that splendid course of ore, it shall not be flashed away in a law suit, as that splendid course of ore, it shall not be flashed away in a law suit, as that splendid course of ore, it shall not be flashed away in a law suit, as that splendid course of ore, it shall not be flashed away in a law suit, as that splendid course of ore, it shall not be flashed away in a law suit, as that spl

SOUTH WHEAT, JOSIAH MINING COMPANY.

SOUTH WHEAL JOSIAH MINING COMPANY.

Sir,—"A stitch in time saves nine," is a very old saying, and it is in accordance with that maxim that I now address you, in answer to the communication of "Jacobi Vox," contained in your last publication, as far as the same relates to me, who, in that letter, be has most falsely and improperly accused, because the sconer the falsehood is contradicted, the less likely are your correspondents to be deluded by the cackling of your anonymous correspondent. The facts, as regards myself, are these—that I never offered any shares in this mine at the price stated in Truro in my life, having, on the morning previous to my visiting that town, disposed of all my shares in this adventure, with the exception of one, which I certainly have never offered for sale; but if I had, which I positively deny, offered the shares, your correspondent completely exomerates me himself, because he states, in his own attempted explanation, that when I was asked if the lode produced from 3 to 4 tons per fm., I replied that I could not say so, but that I had seen stones from the lode which produced ore. I certainly, therefore, cannot be accused of having puffed the concern, even on his own showing. It is exceedingly probable that the solicitor from Tavistock (who is, indeed, highly respectable) may have stated that this concern was all a "flash;" but as he never held a share, or had any connection with the mine, it must have been a mere passing observation, from a gentle-man who has been long associated with many mines in Cornwall, and who has lost sufficient money by them to make him look on every new speculation as somewhat doubtful. "Jacobi Vox," doubtless, deems his letter unanswerable, but if I did not positively know somewhat of his age, I should have thought he was a "minor" instead of a miner; as it is, I much doubt whether he knows anything more connected with the business of the latter than that the miner is sometimes, like himself in his own vocation, obliged to have recourse to "shears." I tru

SOUTH WHEAL JOSIAH MINING COMPANY.

SOUTH WHEAL JOSIAH MINING COMPANY.

Sir,—Your kind indulgence will be felt, by permitting the following to appear in your valuable Journal, in reply to "Jacobi Yox," and the respectable lawyer, alias "flash," in connection with the South Wheal Josiah Mine.

Your correspondent, "Jacobi Vox," appears to be possessed of much humanity towards his fellow-creatures; but you will agree with me, that much more credit would have been due to him had he attached his name to the paragraph, where he condemns others of acting anonymously, and is actually firing from the same source himself. Had "Vox" appeared in his real character, I doubt not we should have found him some knight of the shire, or a meddling lawyer. I am happy to say, in South Josiah we have no lawyer an adventurer, which will, doubtless, be very beneficial to the holders of shares. I cannot fall in with the old adage, which says "like a chip in porridge, neither good nor harm," as I believe the latter would have been the probable result.

In allusion to report, Sept. I, I beg to inform "Vox" and "Flash," that, previous to the report being sent to the Mining Journal, the mine had been inspected by several practical mine agents, who gave it as their decided opinion that the lode was one of a most promising character at that depth, and was producing some good saving work. Had "Vox" been acquainted with mining operations, he must be aware that some lodes vary considerably in value, even in a few feet driving or sinking, which would appear to be the case at South Josiah. I have seen rich stones of ores, and can produce some weighing from 20 lbs. cash; about that time shares were much inquired after, and buyers were more numerous than sellers. Sir, to give you a further idea of the appearances of the mine at that time, I can assert from my own knowledge that the mine was visited by many of the miners from the adjoining mines, who stated, giving their own term, that "they would venture their shirts there;" and the result was, that some of these practical miners, "n Flash," must unquestionably be mistaken as to the prospects of this concern. Doubtless, "Vox." will be made acquainted with the quantity of ores by the Ticketting List, and further state that the broad cloth market should be better understood than the Ticketing Paper, or a pile of ores. In conclusion, I would advise those holding shares in South Josiah to have the opinion of some practical man, who have seen the mine, and know the character of the lode, which will be far more commendable than being led away with wrong impressions.—Tavistock, Sept. 27.

CORRESPONDENT. SOUTH WHEAL JOSIAH.

SOUTH WHEAL JOSIAH.

Sin,—I believe all who admire fair play, and seriously desire that the mining interest of the world in general, as well as the west in particular, should stand upon its proper basis only, are not a little pleased at seeing anything like exaggerated or inflated reports duly exposed; but still, when finding boles in other people's coats, we should first ascertain that our own is in fair fighting condition; it is, therefore, I could have wished that "Mr. Jacobi Vox," "Jacobi Vox, "ascobi Vox, "et al. and "Are the world have been seen as the miner, Jew, or Gentile—had written in his real name, when attacking Mr. Bawden, the which would have looked nore like a fair fight, instead of shooting round a corner, or from behind a mark. As to the mine steef, I would beg to say, it is, in my opinion, that which I have before expressed to seweral shareholders, as well as others, much more worthy of a spirited

outlay of capital than several in its vicinity that have, from time to time, been more puffed. But that the lode was never at any one time worth even half a ton of ore per fm. is false; and I am glad of this opportunity to record my detestation generally of false representations; and I sincerely hope that as the practice did not begin with, the exposures of such practices will not end with, the South Josiah Mine.—Jehu Hitchins: Sept. 27.

MINING IN NEW ZEALAND.

with, the South Josiah Mine.—Jeru Hitchins: Sept. 27.

MINING IN NEW ZEALAND.

Sir.—Observing in your columns of last week an article, treating upon mining enterprise in New Zealand, I think it my duty, as well as that of every Englishman who wishes well to his country and his countrymen, to undeceive the latter, where we find misrepresentations made, calculated not only to do an injury to mining enterprise, by holding out fallacious hopes, but to emtail a loss, which many who embark in speculations in the working of mines, in the hope of increasing their incomes, cannot afford to incur, and which capital might, if well applied, with ordinary caution and honesty, in our clime, yield a might, beneficial return on its employment. In addressing you, Sir, I am induced to do so as a supporter of mining industry and enterprise, and an enemy to humbug and deception; and, meshinks, I can render it perfectly clear to you, that a system is being practised, and a game attempted, by certain parties in New Zealand, and at home, to mislead. I will leave to you and your readers to determine whether I am right or wrong in my surmises. In your Journal of the 28th July a letter appeared from a correspondent, signed "W. M. G.," to which you, with your usual liberality, gave insertion; and had I seen the letter at the time, most certainly I should not have allowed it to pass without a slight remark. Since the publication of your paper, I have received a copy of the Acelaide Observer, under date 18th April, which is it effect the same, containing some of the most gross exaggerations I have ever seen, even with a recollection of the years 1824 and 1834. The object is to me so apparent, that I think it only necessary to direct attention to the principal points put forward, at once to elicit the truth by explanation. With your permission, then, I will at once proceed to the article in question and the remarks, which, I think, will strike any one acquainted with mining, or those who, as tyros, may condescend to "read, mark, learn, and

MINING MOTABILIA.

[EXTRACTS FROM OUR CORRESPONDENCE.]

BRIMPTS TIN MINE, DARTMOOR.—We are informed that on the commencement of operations at this sett, the remainder of the shares were all secured in the neighbourhood. Mr. Jehu Hitchins has been engaged to superintend the working of the mine, which is to be prosecuted in the most effectual manner.

WEST PAR CONSOLS.—This sett has, we understand, been put to work by a highly respectable company, and most of the shares are allotted. West Par Consols adjoins Par Consols, and several of the lodes of that mine run through the sett.

the sett.

WHEAL MAY.—This mine, which was commenced in 1845, but suspended in consequence of the panie of that year, has again been set to work by a London company. The mine is situate in the parish of Botusflewing, Cornwall, near the River Tamar; it contains four very fine lodes, two of which are supposed to be the same as run through the Tamar Consols Mine; the ground seems favourable for driving, and the first lode is only distant about 20 fms, which will be cut 18 fms. deep. The company is conducted on the Cost-book System, with a paid up capital sufficient to prove the mine; according to plan laid down, the shareholders are guarranteed from any calls, or liabilities.

[From the Plymouth Journal.]

[From the Piymonth Journal.]

Tavistock Consols.—The lode in the adit level is 4 ft. wide, carrying two regular walls, and is just a solid course of mundle—a more promising lode caunet be seen. I do not think it can fail to produce ore. The adit level is 4 ft. wide, carrying two regular walls, and is just a solid course of mundle—a more promising lode caunet be seen. I do not think it can fail to produce ore. The adit level is put in good repair throughout, and also the wheel pit lobby top water, to work the wheel, may be with these rains shortly expected. Wheat Franco.—The lode in the 52 fm. level, east of the segime-shaft, is producing good stones of ore; in this level west, the lode is said insordered by a cross-centre; but I think, from the appearance of the end, that we shall shortly have the lode again regular as before in this level. The lode in the winze, under the 47 fm. level, is orey, but not rich. The lode in the rise in the back of the 32 fm. level, east of Spry's shaft, is large and orey; the pitches are unaltered, and the month's sampling will be about 100 tons. Wheat X-ROLAND.—The engine-shaft is 20 fm. from the shaft, so the lode is about 7 ft. wide, and produces tin. In a few days a level has been driven about 1 fn. east and west on the course of the lode, which is found to improve considerably; and, as the ground is very favourable, tinstaff enough will probably be raised to supply the stamps, and pay the cost of the raine.

BIRCH TOR AND VITHER.—Old Vill'er Lode: We have cut the cross-course in the 20 fm. level, east of Hunstan's shaft, about 9 ft. from the shaft, and it has disordered the lode, as it did in the 10 fm. level above. Now, you must not be out of heart, for we know the distance is not more than 18 ft. The 10 fm. level, west of this shaft, we perfund surface the lode, load to 1 fm. level, west of this shaft, we have got into the hard bar of ground that we drove through in their lof fm. level seat. I beg to suy the ground laid open in these levels is not you taken away; we have bu

noderate stock.—Aron Louis: Also ground the land of this mine, but more active war transfer in contemplation since the improvement in Plymouth Wheal Ycoland.

operations are in contemplation since the improvement in Plymouth Wheal Yeoland.

The Ironmasters and the Rallways of Belgium.—For some time past the Belgian journals have expressed their astonishment at the conduct of the administration of Public Works in preventing the completion of the various lines by opposing the addition of foreign capital. Several meetings of the directors of the different railway companies have been held on the subject, and also of the extensive iron proprietors of Liege, Charleroi, and other district, to make proposals to the Minister of Public Works, if he determines to prevent the investment of foreign capital. The ironmasters have made the following proposition:—"That, whereas several lines which should have been opened to public traffic, some time since, are not yet completed, in consequence of the want of sufficient funds and materials, rails, &c., we will undertake to furnish the requisite quantity of rails and machines to complete them, if the Government will allow the companies to issue a certain quantity of shares, which we will take in exchange, at the present quotation of the market, for the material required." The hormasters of Belgium are a very rich and industrious portion of the population; and it is expected that the Government will give the subject its serious consideration, as the mining and metallic industry is greatly affected, and speculation and enterprise fearfully kept in a stagnant state in consequence.

in consequence.

EXTRAORDINARY PROCEEDINGS AND RIOT AT THE SUNDERLAND DOCK—
On Monday and Tuesday last, a series of events took place at the extensive of cocks own course of construction on the beach south of the River West, which caused great excitement in the town, and which arose out of certain disputes likely to occasion a protracted and expensive litigation in the Chancery Courts, unless otherwise amicably arranged, which, for the general good of the town, and the true interest of the parties themselves, we sincerely hope will be the case. The point in dispute is this In July, 1847, Messrs. John Craven and Sons contracted with the Sunderland Dock Corpany to construct, by the 31st December, 1849, a wet dock and half-tide busin on the south beach. In the execution of the works they were to be under the control of the company engineer, who was invested with large powers. The northen part of the dock, or tidal harbour, was contracted for by other parties. Disputes arose from time is time between Mr. Murray, on the one hand, and the Messrs. Craven, on the other, the northen are the contractors engaged at the north end of the docks, exercised, or assumed to exercise, ander power of a provise is the original contract, the right of disselving that contract, and accordingly, on Friday last, they served on the Messrs. Craven a notice to quit, giving them, however, permission to go upon the ground for the purpose of taking away their plant, provided they in the original contract, the right of disselving that contractine and accordingly, on Friday last, they served on the Messrs. Craven a notice to quit, giving them, however, permission to go upon the ground for the purpose of taking away steller plant, provided they in certain possession of the ground, and finish their contract, and thereby three quots of the contractive and the result of the reformal provides assumed right to dissolve the contract, and take plants, provided they determined to retain possession of the ground, and dissibility contracts, and thereby th

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Current Prices of Stocks, Shares, & Metals.

Mines.—The transactions in the mining share market have proved above the usual average amount, and much more would have been done if sellers could have been found at fair market prices. The advance in the standard for copper ore, and the firmness of the metal market, together with the very general improvements which have taken place in our leading mines, present a highly satisfactory and encouraging prospect for those who invested when the market prices were quoted so low, and continued so for many months. In some instances shares have advanced from 20 to 40 per cent. on the market prices, exclusive of the dividends that have subsequently been paid. These results have created a considerable degree of confidence in the mining interest generally, as to the safety of investments in our leading and legitimately managed mines.

Great Consolidated shares have been in request at late quotations, and done at our present. The mine has made a profit of nearly 800l for the last two months, and is now stated to have very much improved.

Trelawny and Trehane are represented as having improved, and buyers have appeared at advanced prices.

In Bedford United and Mendip Hills many shares have changed hands. In consequence of the very considerable discoveries at Treviskey and Barrier, in the 236 and 248 fm. levels, the shares have been sought for, and business done at advanced prices. Buyers are also to be found for South Basset, North Pool, South Frances, East Wheal Rose, and other leading mines.

The continued improvements at Birch Tor and Vitifer Mines have created considerable local inquiries for these shares, and sellers are firm at advanced prices.

Tincrofts were much in demand yesterday, and some business done at an advance on quotations generally given.

We stated last week that, in South Basset, ore ground was laid open to the estimated value of 6000l, it should have been 60,000l, as intended. MINRS.-The transactions in the mining share market have proved

We stated last week that, in South Basset, ore ground was laid open to the estimated value of 6000%, it should have been 60,000%, as intended.

We stated last week that, in South Basset, ore ground was laid open to the estimated value of 6000l., it should have been 60,000l., as intended. Shares in the following mines have been done during the week:—Devon Great Consols, East Wheal Rose, Tincroft, Great Consolidated Mines, Treleigh Consols, Bedford United, Trelawny, Mary Ann, South Wheal Josiah, Trehane, Camborne Consols, Stray Park, Kingsett and Bedford, Birch Tor and Vitifer, West Providence, Hennock Lead, Treviskey and Barrier. At the Treviskey and Barrier meeting a dividend of 4l per share in Treviskey was declared, reserving a balance in hand of 8l. 13s. 1d., with ore bills coming due. The profit for the months of June and July is shown at 45sl. 8s. 9d. In Barrier the loss on the two months is about 21l.; the balance now due to the purser amounting to 90l. 4s. 10d. The agent's report of the mine is highly encouraging; the 24s and 236 fm levels, and a winze communicating the same, are represented as being very productive; 350 tons of ore were sampled on the 19th for July and August, and 350 tons were anticipated for September and October.

At the Great Polgooth meeting, the accounts showed—tin sold in Aug. and September, 5245l. 8s. 11d, leaving a balance to credit, including balance of last account, 1460l. 7s. 5d. A dividend of 4l. 10s. per share was declared, leaving balance to credit, 30sl. 7s. 5d.

At the West Downs meeting, there appeared a balance against the mine of 201l. 4s. 4d., and a call of 5s. per share was made.

At the Great Rough Tor meeting, the financial statement showed a balance of 274l. 10s. 9d. against adventurers, to discharge which, and for current operations, a call of 2l. per share was made.

The weet Downs meeting, the repart of the mine, where the prospects are more favourable—the lode in the 45 fm. level producing good stones of cre, with indications of an improvement; in extending the cross-cut towards the north lode, encouragement is given by frequent intersections of small branches of ore, which are received as favourabl

At the Asturian meeting, a very long discussion ensued, and a good deal of recriminating language passed. Mr. Moore brought forward some charges against the directors, if true, of a serious nature, and, on the whole, no one party seemed satisfied with the result of the meeting. The report of the committee was reluctantly adopted, but we need not further remark upon it here, as a very full report will be found in another column.

one party seemed satisfied with the result of the meeting. The report of the committee was reluctantly adopted, but we need not further remark upon it here, as a very full report will be found in another column.

We have great satisfaction in noticing the resolutions proposed by the directors of the Bolanos Mining Company, and unanimously sanctioned by the highly-tespectable meeting of shareholders, held at the Landon Tavern, on Wednesday last, for the issue of preferential shares, at 1l. each; and that the public, as well as the present shareholders, are invited to apply for these shares. There are at present 14,000 shares in the Bolanos Company, and an appeal was lately made to the holders of these to take up a like number of preferential shares, at 3l. each. It appears that 10,000 worth of such shares only were subscribed for, which shows that the terms were not sufficiently favourable to induce others besides the old shareholders to become subscribers. The directors have, then, wisely, as we think, proposed terms which hold out a strong inducement to men of capital to advance the funds required, and it is probable that the public may avail themselves of the chance of obtaining an interest in the extremely promising adventure of the Bote Mine, upon terms which are certainly very tempting. The plan is to raise 42,000 hy the issue of 42,000 shares, of 1l. each, payable by three instalments, of 6s. 8d. each, the holders of such shares to receive back the 1l. out of the first profits, and afterwards to continue to share future profits rateably with the original holders of the 14,000 old shares. Several influential shareholders expressed a confident opinion that the whole number, or a very large proportion, will be subscribed for; and an understanding was come to that, unless 16,000 or 18,000 was secured, the money would be returned, and we conclude that the concern would then be wound up. The shareholders and their friends should, therefore, make a vigorous effort to secure the success of this plan, which is sim

vigour, and to keep the property together, and we trust that the plan proposed will be successful.

In foreign mines, the chief business done has been in National Brazilian, Copiapo, Australian, Alten, Imperial Brazilian, and United Mexican; in the two former there has been an active inquiry, especially for the National Brazilians, arising from the very considerable improvements which have taken place. The progressive increase in the produce to the 12th of May, which gives, for 10 days' workings, mks. 2 6 1 55, and for a corresponding number of days, including the 3d July, mks. 17 3 1 17, from Cocaes alone, have more than realised the expectations of the company. The advices are to the 6th July, and the discovery was made on the 23d June, the prospects continuing, and promising the most flattering results. The produce from Cocaes, from the 24th June to the 3d July, amounted to mks. 17 3 1 17; from Cuiaba, from the 26th June to the 6th July, was mks. 1 6 7—19 2 6 17. The total amount of gold raised from Cocaes, from May 2 to July 3, appears to be mks. 47 0 5 59.

The United Mexican Company have received a remittance, under date 13th August, consisting of 15,000 Mexican silver dollars, and 600 gold ounces, valued at 39600, making together, \$24,600. Owing to some accident, the usual dispatches did not arrive by the West India mail steamer, but may be expected in a few days, via New York.

Letters have been received from Linares to the 15th inst., advising the arrival of one of the boilers, and that the erection of the engine was progressing most satisfactorily.

The most favourable advices have been received from the North British Australisian and Sootish Australian Companies, which have caused a considerable advance in the shares.

PRICES OF M	INING SHARES.
BRITISH MINES.	Shares
Shares. Company. Paid. Price	Shares. Company. Paid. Price.
1000 Abergwessin 9 5	2048 Runnaford Coombe Tin 4. 5
1024 Airred Consols 85 71 I	9000 South Tamar 11 1
1024 Ashburton United Mines 84. 12	1100 South Dolcoath
1624 Balleswidden 9 18	256 Sth. Friendsh. Wh. Ann 30 28 30
128 Balnoon Consols 424 50	256 South Molton 5 13 14 15
3650 Bawden 2 4	256 South Trelawny 16 . 50 55
4000 Bedford \$3 34 8	2000 South Wales Mining Co. 1. 1 14
1280 Birch Tor & Vititer 102 6 7	128 South Wheat Basset . 201 . 365
5000 Bilisland Consols 1 54	256 South Wh. Josiah 14 5 6
100 Botallack 25	1000 South Wh. Maria 24 14
936 Brimpts Tin 91 3 44	10000 Southern& Western, Irish 21 4
10000 British Iron, New, regis. 12 8	94 St. Ives Consols 80
- Ditto ditto, scrip 10 10	128 St. Michael Penkivel 5 104
128 Budnick Consols 524 10	1000 Stray Park
1000 Caitington 22 9	9600 Tamar Consols 3 74 8
1000 Camborne Consols 7 4 6	10240 Tavistock Consols
256 Caradon Copper Mine 94 14	6000 Tincroft 7113 191
256 Caradon Milas 221. 10	58 Tokenbury 170 10
256 Caraton Wh Hooper 21 48	256 Tregorden 31 5 51
1000 Carn Brea 15 105	5000 Treleigh Consols 6 34
3000 Carthew Consols 14. 6	2000 Trenance 3
500 Comblawn 54. 44	120 Trethellan
128 Comfort 45 60 65	120 Treviskey and Barrier 139110 120
256 Condurrow 20 65 70	1000 Tyliwyd 2 24
1000 Coumbe Valley Quarry 34 44	256 Wallington Mines 25 35
1000 Copper Bettom 14. 64	128 West Buller 19 300 320
900 Court Grange 5 10	256 West Caradon 20 1174 20
128 Creeg Braws 120 30	- West Par Consols 21
500 Cubert Mine 121	256 West Providence 9 20 21
7100 Gerwent	200 West Seton 45 175 180
845 Deven&Courtenay Con. 74 11 2	512 West Wheal Frances 14. 2
1024 Devon Great Consols 1 200	256 West Wh. Friendship 9 8
182 Dolcoath 80 15	256 West Wheat Tolons 80 73 to
2560 Drake Walls 33 34	256 West Wheal Treasury 19 72 10
2000 Durham County Coal. 45 . 9	1024 Whiddon Mines 42 2
512 East Aivenney 54 6	107 Wheal Adams 79 30
2500 East Birch Tor 3 3	1000 Wheal Agar 6
112 East Caradon 47 47	240 Wheal Anderton 10 1
2048 East Crowndale 6 4	128 Wheal Ann 504
128 East Pool	512 Wheal Anna Maria 7 8
94 East Wheal Crofty 125 65 70	256 Wheal Benny
128 East Wheal Rose 50 630	1024 Wheal Bray 10 10
123 East Wheat Sefon and 14 at 10	256 Witeal Biencowe 21 12
1280 Esgair Llee 14 4 41	256 Wheal Fortescus 15
248 Exmoor Wh. Eliza 6 6	388 Wheal Franco 27 11 12
1024 Freidd Llwydd Mines. 14 34	100 Wheat Henry
1000 Gen. Mining Co.for Irel. 14 14	1024 Wheat Lawrence 21 24
256 Gonamena 441 16	112 Wheal Margaret 79 225
256 Grambler & St. Aubyn 80 8 9	360 Wheal Oak 6 5
100 Great Consols 1000 210 220	3000 Wheal Penhale 8 9
2000 Grow: Slate Company . 5 5	210 Wheat Prospect 4 7
000 Heignston Down Con 14 4	128 Wheal Rose 60 3
500 Hennock Silver-Lead 1s 1	198 Wheat Seton 214 250
256 Herodsfoot 27 12 13	494 Wheat Sophia
000 Hibernian 124. 12	128 Wheal Spearne 10 68 70
000 Holmbush 22 . 6	128 Wheal St. Ann 30 35
787 Kirkeudbrightshire 84., 24	260 Wheal Frelaway 75 724 5 80
048 Lamheroce Wh. Maria 8 21	256 Wh.Tremaine(St.Ervan) 94 24
252 Lanartii Consols 4	1024 Wheal Tremayne 94 3 4
160 Levant 225	1000 Wheal Vincent 28 7
000 Lewis 17 91 10	256 Wheal Vlow (Perranz.)
600 Llynyi Iron 50 50	184 Wheal Vyvyau 60
253 Lostwithiel Consols 23 10	Market and Market President
000 Marke Valley 10 # 1	FOREIGN MINES.
128 Metha 34 —	5000 Alten Mining Company 141., 23 3
000 Mining Co. of Ireland 7 4	15000 Asturian Mining Co 15 . 24
280 Nant-y-cria 5 5	20000 Australian 3 5 63

Names of Railways.	Len 1849	gth. 1848	Present ac-	Price p. share	Div. 1848	Traffic. 1849	Returns 1848
Aberdeen	33	16	1,000,547	17	_	£ 635	£513
Belfast and Ballymena	371	374	514,968	19#	5*	423	387
Birkenhead, Lancashire, & Chesh.	19	15	1,088,804	37	ōţ	982	976
Bolton, Blackburn, & West Yorksh.	14	-	786,384	64	-	402	402
Bristol and Exeter	854	751	2,660,490	59	-	4088	-
Caledonian	154	141	4,865.135	142	3	6812	5037
Chester and Holyhead	84	594	3,358,217	114 12	4	2209	2106
Dublin and Drogheda	354	354	778,565	294	-	783	843
Dublin and Kingstown	74	74	395,915	-	-	803	979
Dundee, Pertli, & Aberdeen Junc.	474	478	544,554	19	6	1038	1090
East Anglian (Lynn to Ely)	914	55	1,167,104	2	-	818	632
East Lancashire	751	24	2,628,519	145 145	5	3528	1736
Eastern Counties and Norfolk	322	295	12,027,069	71	-	14181	15598
Eastern Union	78	50	1,782,703	13		1564	1425
Edinburgh and Glasgow	57	524	2,923,199	36 35	6	3979	4494
Edinburgh and Northern	78	34	2,232,115	104	2	2433	-
Glasgew, Paisley, and Ayr	1024	74	2,574,330	50	3	3009	3!63
Glasgow, Paisley, & Greenock	23	23	852,846	16	2	1084	1117
Gt. Northern & East Lincolnshire	143	-	5,138,756	7 1	5†	2806	-
Gt. Southern & Western, Ireland	168‡	1103	3,172,519	284 9	61	3331	3888
Great Western	2301	206	11,867,042	58 59	64	16082	21749
Lancaster and Carltsle	70	70	1,476,102	48 474	48	3799	3569
Lancashire and Yorkshire	2064	1274	10,063,862	63 65	5#	12417	12500
Liverpool, Crosby, & Southport	13	1.3	84,455	3	-	122	-
London and North Western	478	428	26,251,635	112	7	43453	46565
London and Blackwall	5	4	1,299,675		1-12	779	1334
ondon, Brighton, & South Coast	170	1624	6,502,600	714	2	12012	11376
London and South-Western	220	194	7,874,259	338	54	10052	11214
Londonderry and Enniskillen	144	144	185,739	16	-	139	133
fanchester, Sheffield, & Lincolnsh.	1571	944	6,598,260	25 26	5	5053	3412
didland Company	471	423	15,133,779	51	511	23660	24159
didland Great Western (Irish)	50	363	725,332	221	41	1101	1064
donklands	37	1-1	486,245	- 1	6	-	1.5
forth British	122	83	3,649,055	11	44	3286	3011
cottish Central	451	-	1,364,228	19	7	1506	1376
hrewsbury and Chester	48	23	969,618	12	5	1446	842
Shropshire Union	30	-	district of	21	-	343	repair
outh Devon	573	29	1,909,232	7	5	1605	1739
outh-Eastern	1894	1654	8,666,007	18	54	12646	11552
aff Vale	40	40	879,110	-	74	2287	1924
Ilster	36	86	723,829	45	-	651	839
Vaterford and Limerick	25	-	612,894	-	-	268	-
Vest Cornwall	13	-	-	-	-	255	224
Vhitehaven Junction	12	12	150,879	94	3	197	190
ork, Newcastle, & Berwick	2901	2424	6,827,849	188	7	13262	13881
ork and North Midlend	256	234	4,983,618	211	7 1	7567	9635

Whitehaven Junction	2901	12 242 234	150,879 6,827,849 4,983,618	9 8 18 2 21	7 7	197 13263 7567	190 13881 9635
FOR FOR	EIG	N RA	ILWAYS				1000
Amiens and Boulogne	764	68	1,462,562	57	24	1734	1889
Dieppe	26	-		-	-	826	410
Dutch Rhenish	571	571	-	62	-	1144	1413
Monterean and Troyes	714	714		-	-	-	1
Northern of France	211	211	7,142,890	24 dis.	-	17220	14654
Orleans to Bourges (Central)	1074	1071	1,229,848	1000	4	-	-
Orleans to Tours	72	72	600,000	32	6	3294	2873
Paris and Orleans	82	82	2,011,720	30	8	7349	7734
Paris and Rouen	85	85	2,082,916	21	5	7277	6584
Rouen and Hayre	598	-	2,272,176	104	-	2889	2529
Strasburgh and Basle (monthly)	88	88	-	6	-	-	AT .
West Flanders (ditto)			7.37	14		-	-
a.m A.T	Inn Sank		Cons onn 1	holow on	Inone	nen of 4	210n1

over last year.

LATEST CURRENT PRICES OF METALS.

Bar, bolt, & square, London 25 12 6-5 17 6	Tile
Nail rods 7 0 0	Yellow Metal Sheathing 8d
Hoops 7 15 0-8	FOREIGN COPPER, f
Sheets (singles)	South American, in bond
Refined metal, Wales 3 10-3 15	ENGLISH LEAD, g
Do. anthracite* 3 15 0	Pigper ton 15 15 0
Pigs in Wales 3 5-4 5	Sheet 16 15 0
Do. do. forge 2 15-3 8	Red lead 18 0 0 White ditto 22 0 0
Do., No. 1, Clyde net cash 2 3 0-2 5	Patent shot
Blewitt's Patent Refined Iron	All of the control of
for bars, rails, &c., free on 3 15 0	Spanish, in bond
board at Newport*	American ditto
Do., do., for tin-plates, boiler 4 10 0	The second secon
Stirling's Patent 7 in Glasgow 2 14-2 15	ENGLISH TIN.
Toughened Pigs in Wales 3 5-4 5	Block
Staffordshire bars, at the works 6 10	Refined 3 19 0
Pigs, in Staffordshire 2 15-3 0	FOREIGN TINE
Rails 5 0-5 5	Banca, in bond 3 10 0
Chairs 4 0 0	Straits 3 8 0
POREIGN IRON. 6	Peravian (6 mo 21 p. ct. dis.)., -
Swedish	TIN. BY ATTER 7
PSI	IC Cokeper box 1 7-1 8 (
lourieff	10 Charcoal 1 10-1 11
Archangel	IX ditto 1 18 0
FOREIGN STEEL, C	SPELTER. m
iwedish keg	Plates, warehoused per ton 14 15 0
Ditto faggot	Ditto, to arrive 14 10 0
ENGLISH COPPER. d	ZINC. B
Sheets, sheathing, & bolts, p. 16. 0 0 9	English sheet per ton 22 0 9
fough cakeper ton 79 10 0	QUICKSILVER 0 , per lb. 2s. 11d. 3
	made during the course of last month (pri n

Total Tons 27,042 20,609

LEAD ORES
Ticketings at the King's Head Hotel, Holywell, Sept. 27.

MI CHEED.	A On	r.		Pric	€.		Purchasers.
Pantymwyn (Mold Mines)	20	** ***	€9	12	6		Nawton Koatos & Cla
Pen-yr-nendias	40		. 10	2	- 6		ditto
ditto	40		10	9	6		Altto
Westminster	A5		Q	10	0		Walless Dealers & de
Jamaica	50		- 9	-8	0		Newton, Keates & Co.
Belgraves	30		9	9	0		Walker Purker & Co.
Jamaica Belgraves Maes-y-safn	50		. 9	11	0		Newton Keates & Co.
Milwr	80		11	8	6	16. 10	Walker Parker & Co.
Pant-y-celyn	25	*****	11	5	6		ditto
Tota	l tons					0.85	unto
Miles A Marie	Liskear	a, on th	e 248	h Se	pte	mber.	
Wheal Mary Ann	66	*****	£16	17	6		T. Somers.
ditto	50	*****	11	0	0	****	Pontifex & Wood.
Bo	ld at Tr	uro. on	the 9	41%	Ken	1	
Garras	15	****	£11	- 8	6	**	Sims Williams & Co.
ditto	1		11	5	0		ditto
					-		unto
1971 1 PR - 1	Sold on	the 27th	Sept	lemb	er.		The state of the s
Wheal Trelawny	54	** ** **	£18	7	0		R. Michell & Son.
ditto	58		18	7	0		Penpoli Company.
Sold	at Reero	elston. o	n the	940	N. 6	ent	
Herodsfoot	90		£11	18	6	.hee	Sims Willyams & Co
MATERIAL SECTION OF THE SECTION OF T							Situs, Willy auto, & Co.
	Sold o	luring t	he W	eek.			
Wheal Adams	45	*****	£8	15	6		Sims, Willyams, & Co.
Cwm Sebon	17		13	13	0		Mather & Co.
Cwm Vigno	7	*****	9	8	0		J. P. Eyton.
-			_	-	-	me:	
	BL	ACK	TI	N			
		-		-	_		

COPPER ORES.
Sampled Sept. 12, and Sold at the Royal Hotel, Truro, Sept. 27.

Azines.	Ton			rice			Mines. Tons. Price	€.
Consolidated	103		€8	0	0	- 1	Par Consols 52 £ 5 5	6
ditto	100		5	18	0		ditto 37 4 3	0
ditto	74		5	15	0	1	South Caradon 74 10 5	6
ditto	73	****	- 3	7	0	- 1	ditto 61 6 10	6
ditto	72	****	7	18	0	- 1	ditto 51 9 13	0
ditto	71		5	10	6	- 1	ditto 39 5 2	6
ditto	70		7	3	6	- 1	ditto 15 4 7	6
ditto	53		6	9	0		Trethellan 71 1 17	0
ditto	42		5	4	6		ditto 65 2 12	0
ditto	41		3	0	6		ditto 61 3 7	6
ditto	40		- 2	7	0		ditto 35 2 5	0
ditto	3		46	7	6	- 1	Wh. Comfort 82 2 1	0
United Mines	116		2	19	0	- 1	ditto 71 3 11	6
ditto	103		3	7	6		ditto 65 3 13	6
ditto	67		2	19	- 6		ditto 4 3 12	6
ditto	62	****	3	6	0	-	South Wh. Tolgus, 80 7 11	6
ditto	61		3	4	0		ditto 71 5 5	6
ditto	60		3	6	0	- 1	ditto . 70 3 15	0
ditto	52		3	1	6		Perran St. George 56 4 14	6
ditto	51	****	10	5	0	- 1	ditto 51 14 7	6
ditto	41	****	3	8	6	_ 1	ditto 34 10 14	0
Tresavean	106		2	5	0		ditto 27 8 13	6
ditto	99		3	12	0	1	Treleigh Consols. 49 3 15	0
ditto	73		4	9	0	- 1	ditto 34 3 19	6
ditto	44		2	8	6	- 1	ditto 17 9 4	6
ditto	40		3	14	6	- 1	Gramb. & St. Aub. 49 2 15	0
ditto	38		1	16	0	- 1	ditto 14 10 11	6
ditto	35		5	7	6	1	Wh. Ellen 26 5 10	6
Treviskey	94		7	10	6		ditto 19 6 12	6
ditto	81		5	2	0	- 1	distant of the same	0
ditto	80		7	ĩ	6	- 1	0	6
ditto	49			7	6		3371. 3f Cl1- 01 0 1	6
- ditto	46		A	ıi.	6	1	Dishands Ann to a se	6
Par Consols	91			19	6	1.		6
ditto	72			10	0	1	Williams's Ore 6 1 12	0

ditto 72 6 10 0 TOTAL PRODUCE.

Tresavean	 2310 1431 2307 1439 1916 584	0 19 5 11 0 19	6 6 6 6	Treleigh Cousols 100 Gramb. & St. Aub. 63 Wh. Ellen 51 Gonamena 40 Wh. Mary Consols 36 Richards's Ore 19	****	475 282 284 339 110 56	14 16 10 0 14 10	606006
Wh. Comfort222 South Wh. Tolgus221		6	0	Williams's Ore 6			15	

COMPANIES BY WHOM THE ORES WERE PURCHASED.

4" PRO 1944 (利益) (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T OHO	Attious.
Mines Royal	. 197	£993 18 Q
Vivian and Sons	748	4399 3 0
Freeman and Co	416	1440 10 3
Pasece Grenfell and Sons	. 613	3624 16 0
Sims, Willyams, and Co		
Williams, Foster, and Co	859	5272 13 9
Schneider and Co	. 293	1308 18 6
The second secon	-	
Total tons	3790 £	19,554 5 6
	CONTRACT PROPERTY COM	

Copper ores for sale on Thursday next, at White's Hotel, Pool.—Mines and Parcels.—
East Wheal Crofty 541—Camborne Vean 505—North Pool 464—Tincroft 432—Wheal Seton 423—South Wheal Basset 383—Condurrow 258—Wheal Mary 245—Fowey Consols 232—East Pool 309—Dolcaeth 145—South Wheal Frances 139—Jackson's ore 30.—Total quantity of ore to be sold, 3989 tons.

quantity of ore to be sold, 3989 tons.

Copper ores for sale on Thursday week, at Andrew's Hotel, Redrath.—Mines and Parcels.—Carn Brea 669.—Tywaruhayis \$72.—Par Consols 256.—Levant 125.—Wheal Armayne 122.—Wellington Mines 115.—West Wheal Scion 115.—West Wheal Buller 103.—Wheal Agar 64.—Wheal Prosper, 15.—Total, 1969 tons.

COPPER ORES

At SWANSEA, for sale Oct, 4.—Cobre 114, duto 119, ditto 84, ditto 67, ditto 63, ditto 106, ditto 101, ditto 91, ditto 83, ditto 43.—Coplapo 90, ditto 88, ditto 65, ditto 86, ditto 83.—Berelaven 134, ditto 128, ditto 101.—Burns Burns 41.—Eallymurtagh 40.—Guildford Elag 22.—Molony 14.—Total quantity of ore to be sold, 1743 tegs.

NOTICES TO CORRESPONDENTS.

- press upon our correspondents, the necession names and addresses—not that their cobe noticed, but as an earnest to us of their ity of invariably furnishin
- ner" (Trure) should consult Budge's Miners' Guide; and Mitchell's Manua. The Glossary of Mining Terms can be procured, through any booksells
- From our office.

 C. M." (Ipswich).—There are no recent publications on the mining district of Cumber land—the last being that of Mr. Sopwith on the Alston Moor district. The best work on lead smelting is in the German language, and is entitled Wolder's Love Hutter Krasde; and a good description of the processes of lead smelting is to be found in Dr Ure's Dictionary of Arts, Manufactures, and Mines.

- Anteres; and a good description of the processes of lead smelting is to be found in Dr.
 Ulr's Dictionary of Arts, Manyloctures, and Mines.

 R.—The notice of the railway bridges on the extension line of the Blackwall Ballway, from Stepney to Bow, appeared in the Mining Journal of the 26th May last.

 *A Miner "(Liverpool).—We have sever heard of the "Connemara Land Improvement Company." Send us the prospectins, and we will endeavour to ascertain some information respecting the scheme, and its proposed advantages.

 *J. E. "(Abergarenny).—I. There is no register kept in England of the patents granted in America; but the Commissioner of Patents at Washington issues every year a printed list, of which copies are to be found in England; but there is, we believe, no complete list up to the present time in England.—2. The patents for Scotland being for the same subject matter as the English patents, there is no register kept; but any information can be readily obtained of Mr. Campin, of the Patent Office, 210, Strand.

 *Inquirer "(Killamarah).—The case is merely one of simple frespass, and recoverable only at common law. There has been no Act of Parliament passed specially legislating on the subject.

- ting on the subject.

 "T. B." (Newington).—Mr. Pattinson's process is considered one of the most economical for desirvering lead. The cost of smelting a ton of lead much depends on the locality where it is manipulated. There are several German works, in which the method of separating antimony from lead is described; but no good works on the subject in English.

 "A Proprietor of from Mines."—It is impossible to obtain a weekly average value of fron ore so complete as our correspondent would wish. Without the co-operation of all parties concerned, the returns would be very insufficient, and, to our thinking, tend rather to mislead than otherwise, as no correst approximation could be arrived at, unless the total produce could be correctly given from every county.

 George Wineler (Greenhithe).—The twin cylinder engine of Mr. Craddock has one valve, serving for the ingress and egress of the steam into both cylinders; by it one eccentric, one valve, one cross-head, and one connecting-rod, with one steam-box, serve the purpose of both cylinders. Diagrams of the valve, together with a description, were given in the Missing Journal of December 27, 1845.

 E. S. T."—Metallic calmium can be obtained of Messrs. Knight, Foster-lane, City—

- given in the Mining Journal of December 27, 1845.

 E. S. T."—Metallic cadmium can be obtained of Messrs. Knight, Foster-lane. City—the retail price is 4s. per ox., or 21. 10s. per lb.; but, if taken in large quantities, it could be obtained at a proportionably lower rate.

 J. J." (Truro).—Smee's battery is one of the simplest and best adapted for amateurs; it can (fitted up with the electro-magnetic coil machine) be obtained for about 11—the larger ones cost about 30. 3s. With a small battery, such as you describe, a machine is necessary to give a shock.

 A Constant Reader" (Plymouth).—The Real del Monte Company was dissolved in October last; the property in Mexico has joince been sold, and we understand that the shatts of the campany are valueless, inazmuch as any surplus must be divided amongst the beachholders, who have a prior claim.

 "I. C., C.E." (Over Darwen).—We shall endeavour to obtain the information, and in our
- *I. C., C.E." (Over Durwen).—We shall endeavour to obtain the information, and in our next Journal probably be enabled to give a detailed account of the alum trade, which we shall endeavour to make interesting to our readers generally.
- t all communication of the Editor,

 To the Editor,

 Mining Journal Office,

 26, Fleet-Street, London. ** It is particularly requested that all communications may be addressed-

And Post-office orders made payable to Wm. Salmon Mansell, as acting for the proprietor

THE MINING JOURNAL

Railway and Commercial Gagette.

LONDON, SEPTEMBER 29, 1849.

Although it is not the chief field which we make it our daily busi-Attough it is not the chief neid which we make it our daily business to cultivate, still we cannot but say that we very sincerely regret the serious blight which, for some time past, has been thickening upon, and passing over, the great railway interests of the kingdom. Without doubt, however, the deterioration is attributable to causes which the whole world is perfectly familiar with, and which are accessible to an efficient remedy; and for that reason, though we cannot but lament the extent of the injury which has already arisen, we have the utmost possible confidence in the utimate restoration. we have the utmost possible confidence in the ultimate restoration and orderly arrangement of whatever has for the present gone wrong. There is no single cause which has more largely contributed to the partial break-up of this interest than the improper confidence placed in, and the improper authority assumed by, individual directors and chairmen of railways. For the future, we take the liberty to say, the shareholders should exercise a more watchful superintendence over their own property; should be more frequently assembled to examine, and to deliberate upon, the state of their affairs; for it is part of the universal lesson, taught all the days of the year, if people would but read it, that they who long delay to examine their accounts are likely, when at last they must do so, to find some very ugly figures in them.

As railways are descending from the zenith, mines, we are happy to say, are, though with a slower progress, climbing to it. The surplus capital of the kingdom, which we have reason to believe was never greater than it is at this moment, must be absorbed at some point — must somewhere find profitable occupation; and mines, taken as a whole, offer as high a remunerative advantage for mode rate investment of capital as any which can be pointed out within the four corners of the island. Nevertheless, of railways, we take it upon us to say, that, though a heavy cloud casts its dark skirts for the present upon that important branch of public works, as sure as it is now partially obscured, it will emerge again into broad sunshine, and into full success.

We think it necessary to draw attention to an extract from a private letter from Auckland, on the subject of the Kaw-aw Mines which appears in another column, in consequence of a paragraph which several of our contemporaries have taken from a colonial paper. Two months ago we had in our possession the Southern Cross of the 17th Feb. last, containing the original article at much greater length than has been published by the papers at home; but several of the statements were so palpably errodeous and exagge-rated, that we abstained from giving insertion to the article—admit-ting merely the letter of a correspondent referring thereto—lest it should mislead parties who were interested in the concern. Of course, we are not in a position to question the quantity of ore stated to be in we are not in a position to question the quantity of ore stated to be in sight; but we know that, even at home, it is impossible for six men to raise from a mine 60 tons per day, at the rate of 1s. to 1s. 3d. per ton! We scarcely think that even a New Zealander can raise ten tons a-day; but we cannot believe that any tributer would undertake the task at a price so low as 1s. or 1s. 3d.

It will be observed, in the letter above alluded to, that the one is It will be observed, in the letter above aluded to, that the one is stated to be "for the most part of so love a quality as not to admit of its shipment to England in a raw state; and again, with reference to the article in the Southern Cross, the writer says, "do not place too much faith in the great prospects they speak of. There is, no doubt, a good deal of ore; but it is mostly very poor." And, even at the risk of renewing an old subject of controversy, we cannot help adding another quotation—"The whole system of management hitherto pursued seems far too expensive to admit of the profitable working of so poor an ore, in honever great abundance it may be found."
We consider it our duty to bring these statements before the share-holders, in order that they may not be disappointed hereafter; at the same time, by no means wishing to undervalue a property which, with economical and judicious management, we have always be-lieved capable of yielding great results; and we refer with pleasure to a communication from "A Sceptic," on the same subject, which will be found in another column.

We have furnished, in another column, a full report of the proceedings at the meeting of the shareholders of the Asturian Mining Company, held on the 25th inst., and sadly do we regret that it has been found necessary to pursue the course taken by the committee; but who have ably done their duty in the investigation and partial disclosure of abuses. That a lavish expenditure, and want of practical management, has existed from the onset, we believe will be

generally acknowledged, as it has been partially known; but the expose on Tuesday last, as they would say in Ireland, "beats Bannagher." A few words will suffice on the present occasion, for it is quite clear this is only the beginning of a grand mouvement on the part of the Committee of Investigation, as to the inquiry which they are about to institute into the formation of the company, the appropriation of shares, the trifling benefits derived by the Board of Directors in introducing this "El Dorado" to the public, and the apathy and want of interest manifested by them (after having served vn turn), as regards the property of the shareholders entrusted to their care.

We are told that certain of the directors (for we understand from Mr. Knill he was an exception; and here we may add the names of Messis. Pratt, Cunningham, and Scale) received a bonus, or proof Messis. Pratt, Cunningham, and Scale) received a bonus, or proportion, of the purchase money—as, for instance, Mr. Gideon Colquedon, 125 shares, or 1250l.—that a system of jebbing was practised for "placing" the shares, or drawing the public into the meshes of the net; that Messis. Norman and Keilly had some 2000 or 3000 shares placed at their disposal, some of which were sold at premiums, but the remainder returned and deposited in the archives of the company with, as we presume, the duplicate, or vather original books; indeed that, in fact, the directors have consulted the rown interests in a pecuniary point of view, and neglected those of the proprietors. As an instance of the cupidity of these gentlemen, it appears that they allocated to themselves a sum of 1500l, per annum for their labours—no small trifle, when it is considered how hard they worked to promote their own interest.

these gentlemen, it appears that they allocated to themselves a sum of 1500L per annum for their labours—no small trifle, when it is considered how hard they worked to promote their own interest.

Having said thus much, let us look on the other side, and consider the present position of the company, and the course pursued by the Committee of Investigation, and that proposed by them as well as the liquidators. We have already said that, up to the present moment, the committee have acted with energy and truthfulness; but we feel it our duty to caution the shareholders from placing a blind confidence in the acts of gentlemen who, actuated, we doubt not, by the best intentions, may even mislead themselves. The committee wish to assume a power, it is quite clear, to which they are not entitled, and which, if once admitted, would completely annihilate all principles which constitute the laws, or government, on which a company is formed and conducted. The committee would be "liquidators"—a term we do not understand, as applied to English mining companies, except under the Joint-Stock Companies Winding-Up Act, who are then appointed by the Court, but which, in the present case, we are told, is in perfect consonance with the Spanish laws. The committee and liquidators would, therefore, supersede the acts of the directors, and, in fact, assume their functions.

and liquidators would, therefore, supersede the acts of the directors, and, in fact, assume their functions.

It appears to us, if such is to be the case, and such the desire of the share-holders, which, however, most certainly was not evinced at the late meeting, the better and more regular way would be to depose the present directors, and elect the committee in their places; this would be, at least, business-like, and to be readily understood. Ere we close our remarks on this company, we would advert, and that seriously, to two grounds of complaint, which we think Col. Birst very properly put forward at the meeting. The one was the refusal on the part of the committee to allow complaint, which we think Col. Bire very properly put forward at the meeting. The one was the refusal on the part of the committee to allow parties to transfer their shares while the report of the committee was pending, and which may not be given in extense for 12 months from the present time. The other was, that of the refusal of the chairman to grant a scrutiny or ballot, after having declared the motion carried, which we have no hesitation in saying, was not even the case by show of hands, while it was well known to all present, that as regards the number of shares represented by the meeting, the supporters of the resolution referred to were in a woful minority. We much regret to see such things done; it detracts from the character of the Briush merchant and adventurer; and, while we complain of want of honesty on the part of those to whom we have lent our money, by way of foreign loans, in the time of need, it says but little for us, that those who place their confidence in English honour should be deceived. nour should be deceived.

In another column will be found a detailed report of the meeting of shareholders of the Bolanos Mining Company. The history of these mines from their commencement in 1825, until a very recent period, is too well known to need recapitulation. At the last general meeting, held on the 1st August, the directors brought before the shareholders a proposition for raising new capital—this was to be effected by issuing 14,000 new shares, on which 3*l*. per share was to be paid by way of loan, to be returned out of the first prowas to be paid by way of loan, to be returned out the lirst pro-fits, the holders still keeping the share, which was to rank equally with the original ones. This, if all paid up, would realise 42,000l, which would pay off their debt in Mexico (16,000l), and enable them to work the mine vigorously and advantageously; this was to be payable by easy instalments. The resolutions for raising the capital payable by easy instalments. The resolutions for raising the capital were passed unanimously, and it was expected that no further difficulties would accrue. It appears, however, that in the interim but a very small portion of the requisite capital has been subscribed, and that so trivial, that the directors have been forced to appeal again to the shareholders. The scheme of the 3l. shares having failed, the directors have determined to substitute in their place shares of 1l. each, with the same advantages. The sterling figures will remain the same; but 42,000 will be issued, instead of 14,000 shares. After some little discussion, the resolution for raising capital was again carried unanimously. Whether this will experience the fate of its predecessor remains to be seen; but we think that the disposition of the meeting would have been better proved, if, inissued, instead of 14,000 shares. And some instead accession, the resonation for raising capital was again carried unanimously. Whether this will experience the fate of its predecessor remains to be seen; but we think that the disposition of the meeting would have been better proved, if, instead of passing empty resolutions, they had seen what each present holder was inclined to subscribe to the new capital, the more especially as the directors stated they did not believe they shall require more than two-thirds to develope the mine, and clear themselves of their difficulties. It cannot be expected that parties knowing little or nothing of the concern will invest their capital, when they see the disinclination of the old proprietors further to embark. We do not mean to infer that any such disinclination was shown at the meeting—indeed, there seemed to reign a general unanimity; but, judging from the first failure, and the inertness since displayed by the shareholders, we fear we can augur but little success to the present scheme, unless some instant and decided steps are taken to save the property. The sum required is comparatively so small, and the prospects appear so encouraging, that after the expenditure of capital which has already been incurred, it would seem the height of desperation now to abandon the property. In a former africle we alluded to the sale of the Real del Monte Mines, by which the purchasers from the English Company realised a premium of about 40,000l. by the transfer to a Mexican Company. We by no means wish to hold out any inflated prospects, which may never be realised, the system on which the company has been lately working, with crippled resources, has, no doubt, materially injured the proper and judicious development of the mines. Speed, economy, and good management are requisite to make profitable returns, and this can never be the case with inadequate capital. The directors appear to have given unwearied attention to the interests of the company, and if they have invested, they must the requisite capital will be forthcoming. Whether the results will be so favourable as is anticipated, the future will show; under all circumstances, with the large amount already at stake, it is worthy the trial. This cannot be done without capital, and another failure to raise that would "ruin indeed."

METALLIC INDUSTRY OF FRANCE.—A letter, dated Paris, Tuesday, gives the amounts, in met, quin., of the principal imports of August, 1849, as compared with those of the corresponding month of 1847, from which we select hose of interest to our readers. A comparison with that of 1848 would have to interest except to show the deplorable influence which the revolutionary novements of that year exercised on commerce:—

August, 1847.

August, 1849.

3,110 10,541 5,886

Saft 5.38

From this, it will be seen that the import of copper and brass has rise its former amount, but that of the other metals, particularly rough and coal, still remains very far below that of 1847. The exports she

NORTH BRITISH AUSTRALASIAN COMPANY'S MINING PROPERTY-KAW-AW, NEW ZEALAND, We have been favoured with the following extract of a letter, dated

NORTH BRITISH AUSTRALASIAN COMPANYS MINING PROPERTY—KAW-AW, NEW ZEALAND.

We have been favoured with the following extract of a letter, dated Auckland, New Zealand, 11th Feb., with postsurpt dated 20th Feb., 1849;

"The island of Kaw-aw is situated about 30 miles north of Auckland, the capital of New Zealand, in a deep bay of the Gulf of Shouraki—the strait between it and the mainland being only from two sever miles wide, and being studded with smaller islands, affords asic anchorage in most parts, and everywhere the smaller islands, affords asic anchorage in most parts, and everywhere the smaller island of Kawatawa to a several beautiful barbour in the island of Kawatawa casels. There are several beautiful barbour in the island of Kawatawa casels. There are several ports Maharangh and Maktakana, and many amaller vivers and thys—at present only occupied by, and almost only known to, curriers and woodcutters. The copper mine is on the western and inner side of the island, with good anchorage immediately off it—the island in the neighbourhood being billy and thickly wooded. The village, or principal settlement, has been placed in a beautiful valley, fronting the middle harbour, about a mile and a half or two miles from the mine. On this favoured apt no expense has been apared, One of the best, though unfortunately one of the ugliest, houses in the colony has been built for the manager, and excellent houses for the mine agent, and other numerous officers, and some of the more favoured miners, with gardens and every comfort and convenience attainable in this country. This village has a Macadamised road through it—an expensive luxury almost exclusively its own. The other miners and labourers live in cottages, moutly built by themselves close to the mine, in situations not so picturesque, but far more convenient, especially in the wet winters of New Zealand. The lode runs about north and south, and crops out in a bold cliff with deep water close to it it consists of very hard compact iron pyrites, capet, and a little

works underground again carried on with activity."

Auchland, New Zealand, Feb. 11.—"Above I send you an account of the present position of the Kaw-aw Mine. You may fully rely on these particulars. Since they were written, the Crown has commenced proceedings, by scive facias, to repeal the grant of the island to Mr. Beattie, through whom the North British Australasian Company claims. This grant is objected to on several grounds, and it is generally considered that the Crown will succeed: I will not fail to inform you of the remarks (results?). The trial is expected to take place in March. The Island of Kaw-aw contains about 4700 acres, and the company's agent (Mr. John Taylor) was offered by the Government 800 acres, including the mine, village, and other improvements, on giving up the remainder, with liberty, however, to purchase that at IL per acre. This he refused, and hence the legal proceedings; the refusal was, I think, indiscreet. It is, however, generally understood that, even in the event of the Crown succeeding, a part of the island will be given as a composition for the outlay; but what will really be done is not quite certain as get. I will, as you desire, keep you advised from time to time, as I can give you informatible to rely of."

Feb. 20.—"The mail has not closed as was expected, and I have forwarded to

Feb. 20.—"The mail has not closed as was expected, and I have forwarded to your address a local paper, in which there is an article in reference to Kaw-aw. Do not place much faith in the great prospects they speak of; there is no doubt a good deal of ore, but it is mostly very poor. As far as the account I send you goes, you may fully rely on it."

Belgium.—The Moniteur Belge publishes returns of the imports and exports of Belgium in the first eight months of the present year. Among the exports are—arms for 3,957,854 firs.; coal, 393,822 tons; cast-iron in pigs, 27,594 tons; glass, 6,473,667 kilos; zinc, 6,282,283 kilos.—all presenting a great increase

glass, 6,473,667 kilos; zinc, 6,282,288 kilos.—all presenting a great increase over the corresponding period of 1848.

Sincapora.—Letters to the 4th August mention that coal had become so scarce that the agent of the Peninsular and Oriental Company had been obliged to procure 200 tons from Calcutta, at a fraight of \$75 per ton. The Government coal depôt was empty, and the Admiral, with a view to provide against any pressing occurrence, had ordered the Sembramis steamer to land her coals, and sail to Labuan, to take in a freah supply. The opening of the Eastern Archipelago Company's coal unines was anxiously looked for, and it was confidently expected that the inconvenience now felt would be speedily obviated from that source.

dently expected that the inconvenience now felt would be speedily obviated from that source.

Arrivals of Specie.—The following numerous and large arrivals of specie in bullion and coin have just taken place from the different countries mentioned:—The vessel Jane, from Algoa Bay, Cape of Good Hope, has brought 3 cases of specie, consigned to a firm of eminence in the metropolis; the Molly Baren, from Punta Arenas, 60 packages of silver ore, consigned to order; the Canada, from New York and Halifax, 1 box of gold dust, addressed: the Zillah, from Valparaiso, 232 bars of copper, consigned to order; the Anglesca, from Valparaiso, 232 bars of copper, consigned to order; the Undaussad, also from Valparaiso, 181 bars of copper, consigned to a metropolitan house; the Persian, from Arica, 1 box of silver, consigned to the Bank of England; the Dulins, from Shanghae, 20 boxes of silver, consigned to a metropolitan afrom, and 2 boxes of treasure, consigned to three separate firms of commercial eminence in the metropolis, and 64 cases of treasure, and 1 box of gold dust, consigned to order; the Alice Mand, from Part Adelaide, Australia (in addition to 5956 bags and 122 tens weight of copper ore), 2 boxes of bullion, addressed to separate parties in the metropolis; the Ostrich, from Madras, 83 cases of rupees, consigned to order; the Lady Nagent from Bombay, and from the Cape of Good Hope, respectively, brought from the Inter place, 2 boxes of specie, addressed, and 1 box consigned to order; the Callao, from Callao, 213 bags of gold and silver ore, from Algoa-bay, Cape of Good Hope, 1 box of specie, addressed, and 1 box consigned to order; the Callao, from Callao, 213 bage of gold and silver ore, addressed to a firm of commercial eminence in the metropolis; the Louise Maria, from Oporto, 1 bex of silver, consigned to order; and the ship Medecca, from Bombay, the large quantity of 204 boxes of treasure, consigned to order.

MERCANTILE TRAFFIC OF RAILWAYS.—The following is a comparative statement of the goods traffic on the various railways during the half-year and-

the 30th June, 1848, and 1849:-	10.70 1	1849.	andier to	1849.	19
London and North-Western		£339,800		£385,081	13
Great Western			*******		
Lancashire and Yorkahire			*******	158,499	
Midland					
York and North Midland				94,255	
York, Newcastle, and Berwick					I.
Eastern Counties			*******		2
South-Western			** ** ***		10
Brighton		29,601		36,789	10

The large decrease on the York and North Midland Railwa extent, be attributed to the blockade of the ports in the no immediately connected with the port of Hull.

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THE OXFORD, WORCESTER, AND WOLVERHAMPTON, THE LONDON AND NORTH-WESTERN, AND THE OXFORD AND BIRMINGHAM RAILWAYS.

TO THE SHARHHOLDERS, - Having a large stake in the former of thes railways-at least, a large amount for a man of my means-I have been watching with intense anxiety the progress of the proceedings of the directors of this line; and it has now arrived at that period that nothing but ruin stares us in the face. When this railway was first projected, I thought with many others, it would be a good-paying line, and I ombarked as much money as I could spare in it; and as it was first started, if it had been carried on in a judicious manner, I am confident I should not have been disappointed; but no sooner had we obtained our bill than circumstance took place to blast our hopes. The Grand Junction Company, when in treaty with the London and Birmingham Company for an amalgamation of their lines, not being able to get so good a hargain as they wished, made overtures to the Great Western Company to ally themselves with them to make a line from Birmingham to Oxford, with a view to carry on the broad gauge to Liverpool, to give them an independent line from Liverpeol to London. This so alarmed the London and Birmingham Company, that they at once relaxed their terms, and agreed with the Grand Junction, leaving the Great Western in the lurch, when they had obtained their object. The Great Western, with great obstinacy, determined to go on with this project themselves, in the face of the most serious consequences; and, by so doing, have placed themselves, and the London and North-Western also, in such a position that cannot fail to be ruinous, and this is now manifest to the most common observer. In this train of ruinous proceedings, they induced our chairman, and some of our directors, to give them aid and assistance, although it was clear that any man with half an eye must have seen it was suicidal to our line, and entirely destructive to itself, and the London and North-Western. If these three lines are all finished, it will injure us as our Wolverhampton and Dudley end; but to the two lines referred to, it must prove most ruinous. Now, to begin to criminate the parties who have thus acted, will not mend matters at all, and it is not my object to make bad worse, but to try to stop the thing from getting worse; and I naturally ask myself what can be done to accomplish this object; and, after the most mature consideration of the subject, I can see one way, and one way only. It is quite clear that there is not sufficient traffic to support three lines from Wolverhampton to London—two vid Birmingham, and one way only. It is quite clear, that there is not sufficient traffic to support three lines from Wolverhampton, can more than do all the business of the district; and there may be sufficient to make these two lines pay a fair return, but not more; then it is quite clear, to finish the Birmingham and Oxford, will be injurious to all, and certain ruin to some; then what is to be done? Why, I answer, the same as would be done by wise men in all such circumstances. Stop the making of the Birmingham and Oxford, will be injurious to all, and certain ruin to some; then what is t pool to London. This so alarmed the London and Birmingham Com pany, that they at once relaxed their terms, and agreed with the Grand

OXFORD, WORCESTER, AND WOLVERHAMPTON RAILWAY .- A sale of some novelty took place at the Auction Mart, on Thursday, consisting of six mort-Worcester, and Wolverhampton Railway, in the carrying out of which upwards of 1,500,000. had been expended, with debentures only to the extent of little more than 100,000. issued. There were six lots, three of them being debentures for 1000. two for 2000. and one for 3000. and after a variety of biddings they were disposed of at a realisation of 85 per cent. The debentures were the property of a contractor to the line.

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More Railway Jobbing .- A singular case will be brought on in the Queen' Bench during the ensuing term, which is likely to show to what extent jobbing Bench during the ensuing term, which is likely to show to what extent jobbing has been carried on by several of the leading railway companies. In 1844 and 1845 a railway was projected from Exeter to Crediton, which was subsequently sanctioned by Parliament. Previously to the passing of the Act, however, an agreement was come to with the directors of that company for leasing the line on its completion to the Bristol and Exeter Company (the line being a broad gauge one). The agreement was subsequently confirmed by the proprietors of both companies, and a formal ratification of the agreement was on the point of being concluded, with the consent of the proprietors of the Exeter and Crediton Company. At a meeting of the proprietors, held a few days afterwards, a large majority of votes was suddenly produced against the leasing of the line to the Bristol and Exeter Company. This, it appears, was occasioned by purchases and subdivision of shares among parties connected with the Taw Vale and South-Western Companies with the funds of these companies. It further appears that the parties voting on the occasion referred to had not been one week on the company's register, and were not the real, but only nominal, holders of the shares in respect of which they voted. The South-Western Railway, having agreed to subsbribe towards, and take a lease of the Taw Vale Railway, wished to become possessed of the Exeter and Crediton line, as forming an important link in their intended chain of railway communication, and admit that they paid advanced 30,000L to the Taw Vale Company, and that the Taw Vale Company, with the aid of this money, purchased 1700 shares in the Exeter and Credition Railway, and admit that they paid adeposit and a call, amounting, together, to 4L, on 6850 shares, of 20L each, in the existing capital of the Taw Vale Railway, and also a deposit of 10 per cent. on one-fourth part of their proposed capital. The plaintiffs in the suit complain that the Exeter and Crediton line has been finished and ready for opening f has been carried on by several of the leading railway companies. In 1844 and

The result of the investigation of the Crown authorities into the fall of the bridge at Roxburgh, on the North British line, by which several persons were killed and injured, is, we understand, the indictment for trial at the next assize of the contractor and resident engineer.

LONDON AND NORTH-WESTERN RAILWAY.—It is stated that the opening of the Manchester, Bolton, and Liverpool line has taken away some 700% weekly from the receipts of the old Liverpool and Manchester portion of the London and North-Western Railway.

GREAT WESTERN.—Owing to the general depression, the workpeople at this company's central works, Swindon, are only working four days in the week.

ABRIDGEN RAILWAY.—The directors intend to open a further portion of this line early next menth, extending a distance of 27 miles, to a point three miles morth of Stonehaven, and to within 12 miles of Aberdeen. The works on the remaining portion to Aberdeen are advancing rapidly, with a view to their completion by the end of the year.

Windows Railways.—Experimental trips of the completion of the complet

WIMBSOR RAILWAYS.—Experimental trips are being made on the Great Western Company's line into Windsor by Mr. Brunel and assistants. No per-ceptible deflection is observed in the bridge crossing the Thames, and the line will be ready by the first of the month. The works at the bridge on the South-Western Company's line have been recommenced.

Western Company's line have been recommenced.

RAHWAY ACCERNYS.—By an analysis of the returns made to commissioners of railways, it appears that of the 36 persons killed, and 75 injured, on all the railways open for public traffic in Great Britain and Ireland, during the half-year ending 30th June, 1849, there were.—5 passengers killed, and 20 injured, from causes beyond their own outrol; 7 passengers killed, and 30 injured, owing to their own misconduct or want of caution; 12 servants of companies or of contractors killed, and 30 injured, owing to their own misconduct or want of caution; 20 trespassers and other persons, neither passengers nor servants of the company, killed, and 4 injured, by improperly croasing or standing on the railway; suicide, 1; total, 96 killed, 75 injured. The number of miles of frailway open on the 31st of December, 1848, was 51264; the number of miles open on the 30th of June, 1843, was 54474; increase during the half-year, 320 miles,

Original Correspondence.

A NEW LOCOMOTIVE ENGINE.

SIR,—Permit me again to draw attention to the magnificent locometive ngine built by Mr. Timothy Hackworth, which is by far the proudest spemen of loco-mechanism that ever the genius of the engineer, comb with the experience of years, united to complete. The result of the ex-periments on the York, Newcastle, and Berwick Railway, has been of the most satisfactory character, and efficiently prove that with regard to speed, power, and economy in consumption, this engine stands unrivalled.

periments on the York, Newcassle, and Berwick Railway, has been of the most satisfactory character, and efficiently prove that with regard to speed, power, and economy in consumption, this engine stands unrivalled. The first class of experiments I would advert to was performed with Government trains, varying from 15 to 17 heavily-laden carriages, between York and Darlington, a distance of 45 miles; in this distance there are 13 stops to make, showing an average of 3.2 miles between each station, the time lost with dead standing was 27 minutes, and if we allow three minutes for loss of speed in stopping and starting at each station, we have 66 minutes unavoidably lost in stopping and starting: the consumption was at least 25 per cent. below the best engine doing the same work on this railway. If we take into account that she only has a single pair of driving wheels, and these 6 ft. 6 in. diameter, with a 15-inch cylinder, and 22-inch stroke, and these 6 ft. 6 in. diameter, with a 15-inch cylinder, and 22-inch stroke, I fearlessly say, that with such a class of engine, the above experiment is without a parallel in locomotive annals, and will bear a comparison with compled engines; for, although having frequently to contend with powerful side winds and adverse weather, she not only maintained, but gained, time. As the engine has been chiefly designed for running express trains, it is, certainly, under these circumstances she attains the maximum of distinction.

The second class of experiments was performed with express trains of 11 carriages between Darlington and York, returning with the swift train of six carriages with a clear saving in fuel of fully 25 per cent. over the best engine on this line. The speed attained by the engine was frequently 75 miles per hour. I hesitate not to say she will complete the distance between York and Darlington (45 miles) in 40 minutes, with four or five carriages with a clear saving in fuel of fully 25 per cent. over the best engine of the present day. That the advocates of the placed it on the brow of Darlington, Sept. 26.

CAUSE OF EXPLOSIONS IN MINES.

SIR,—The many conflicting opinions upon this subject more than jus-tifies a careful revision of the evidence of numerous scientific men upon former inquiries, but whose valuable testimony, although collected at an enormous expense to the country, has been thrown aside unheeded, and grossly neglected for years. The evils have been too clearly demonstrated

enormous expense to the country, has been thrown aside unheeded, and grossly neglected for years. The evils have been too clearly demonstrated to admit a doubt as to the cause and effect of such calamities; and the long-desired desideratum, if discovered, may probably, for a time, be equally disregarded. Whatever may have been the conduct, however, of past Governments, we have reason to hope the present advisers of her Majesty will zealously follow out the task they have now so nobly undertaken; and if the present mode of ventilation can be proved to be bad, and that a better system can be demonstrated, if even coercive measures should be found necessary, the mining interest of this country will no longer, I think, be found strong enough effectually to resist its adoption. Your indefatigable and respected correspondent, Mr. Shepherd, in your last Number, confirms my assertion to a certain extent, that furnace ventilation is defective, inasmuch as the fall of the barometer in mines, consequent upon atmospheric changes, is indicative of danger. There can be but little doubt, if any, upon this point; but the threatened danger from changes in the atmosphere can be removed by adopting a means of ventilation not influenced or acted upon by such changes. I hold that the atmosphere of a mine could be far more effectually regulated by machinery than by rarefication, or condensation, by heat, or other means, which, under some circumstances, are beyond human control. But, even admitting that furnace ventilation is good, it can only be so whilst due regard is paid to its known powers, as compared with the internal measurement of the workings; there must be a limit if safety is considered; but how far this has been studied by the managers has long been exposed—so long, perhaps, as to be almost forgotten; I, therefore, take leave to renew the subject, and to take the official documents for my guidance, including the testimony of men whose veracity and scientific attainments none will dispute; and amongst them the late Mr. Bu

whose evidence, in Report dated Sept. 1835, p. 249, I respectfully beg to refer your readers.

Mr. Baddle estimated the standard speed of atmospheric air admitted into a working coal mine to be 3 ft. per second, through an aperture from 30 to 40 ft. area, and, taking the maximum, would give 10,368,000 cubic feet of air introduced in each period of 24 hours. Next comes the consideration of the internal workings. Suppose, then, an acre of coal to have been worked of the thickness of 4 ft. 6 in., the contents of which would be 196,020 cubic feet, which gives nearly 53 acres in one day, thus showing that, when one acre is excavated, the air may be changed 53 times in each period of 24 hours. If 10 acres, then five times in 24 hours. If 53 acres, then once in 24 hours, or that period of time between its entrance and its exit. If 212 acres, then only once in four days, and so on, as the excavation increases.

excavation increases.

Next take the minimum standard mixture of common atmospheric air

Next take the minimum standard mixture of common atmospheric air and carburetted hydrogen gas in a working mine, to keep the pit always in a wholesome, safe state, as estimated by R. Smith, Esq., at 20 parts of the former to one of the latter.

Suppose, then, 200 acres of space to have been excavated, and still remain so, in a gaseous coal unite, of an average depth, or thickness, of 4 ft. 6 in: throughout, and which mine generates gas at the rate of 20 per cent. of its own open space in 24 hours, it will be equal to 40 acres of inflammable gas in that period; to dilute which to the estimated standard of safety would require 800 acres of atmospheric air, or 15 times the speed of that laid down by the late Mr. Buddle. If, then, the standard speed of air at the downcast shaft be according to his estimation, one fifteenth part only of the quantity of air necessary to the safety of the men employed can in such cases be obtained; the public, therefore, need no longer feel surprised, nor seek further for the cause of such wholesale slaughter of

can in such cases be obtained; the public, therefore, need no longer feel surprised, nor seek further for the cause of such wholesale slaughter of our fellow-creatures; for it is an undeniable fact, that the excavation in very many mines continue on from year to year to an almost boundless extent, without additional shafts being sunk, or proper precautionary means adopted, sufficiently to increase the current of air, according to the extent of the workings. In St. Hidda's Pit, for instance, the extent of roadway is said to be about 70 miles—(see North and South Shields Gazette, June 22), and this colliery, I believe, has but one shaft, the division of which, for the ingress of air, cannot exceed the area calculated by Mr. Buddle to admit 3 feet per second, and, by the same showing, sufficient only for 53 acres, so as to produce a perfectly fresh current from end to end of such an air-course once in 24 hours. It may be said (and was formerly) that this is a peculiarly safe mine, but let the uninitiated judge from the following facts—(see Hair's Sketches of Coal Mines):—An explosion took place in this colliery on the 29th June, 1859, about nine o'clock A.M.

The mute despair, or frantic grief, of the assembled parents, wives, children, and friends, were intensely agonising, and as the bodies of the sufferers were one by one brought to bank, and conveyed in carts to their recent

homes, the scene became almost too painful for contemplation. In the course of the day the whole of the bodies, fifty-one in number, were exhumed; 19 widows and 44 orphan children were left.

One writer who descended this mine says—"We encountered in one place the bodies of five who had died from the effects of the gas, and had apparently died placidly, without one muscle of the face distorted; then there were three more that had been destroyed by the explosion; clothes burnt and torn; the hair singed off; the skin and flesh torn away in several places, with an expression as if the spirit had passed away in agony. We encountered two men; one with a light, the other bearing something on his shoulders—it was a blackened mass, a poor dead burnt boy he was taking out! One man who had been attempting to extricate the bodies of the sufferers, was brought out in a fainting state; and as he did not recover so quickly as some others had done, he was questioned as to how he felt. "I am not well, Sir (said he), I have two sons in there."

One's heart really sickens at such horrifying details; and notwithstanding such scenes frequently present themselves to those entrusted with the management of coal mines, such have of human life, "for reasons of infinite wisdom," has hisherto failed in diverting their minds from the mistaken mode of ventilation so generally adopted. So long as self-interest alone is considered, and undue opposition is manifested to every species of improvement suggested, I shall steadily persevere in my endeavours to prove to demonstration that great alterations are absolutely necessary, and which must be enforced. It is, however, a matter of such vast magnitude that no private individual can do justice to the cause; but while I am blessed with health unimpaired, no exertion on my part shall be spared in bringing the matter fairly before Parliament; and I despair not of ultimate benefit to the working miners of the United Kingdoun of Great Britain. A fair field and no favour is all I ask personally; but

IMPROVED MANAGEMENT OF IRON-WORKS .- No. IV. DESCRIPTION OF THE PROPOSED FIVE "WORKING COMPANIES."

All approved and required results to be delivered to the yards of the everal working companies (or to the custody of the ironmaster, or his ge-

neral manager), at fixed prices for the customary ton, say:—

Approved large coal, at — per ton, to quality | Jacks, or poor mine, at ... |

Limestone ... | Limestone ... |

Coal-road sweeping, at _ , , , |

Ironstone & blackband — , , , |

Ironstone & blackband — , , |

Ironstone & blackband — , |

Irons

All to be delivered to the several working companies, as may be ordered and agreed upon by their respective committees of management; and the nature, value, and properties of the several results to be accurately ascer-

and agreed upon by their respective committees of management; and the nature, value, and properties of the several results to be accurately ascertained, by analysis, say mouthly or quarterly; this point should be strictly attended to, particularly as regards all raw minerals, for the value and prices of these things will regulate and determine the value and price of all finished results—thus may the actual cost price, and relative value of everything under manufacture be correctly ascertained at all times.

The entire money receipts of the several working companies to be paid monthly to the credit of their respective accounts with their bankers; which "accounts" to be answerable for all just claims of the ironmaster, or the proprietors of the general work; and when all wages, salaries, and other working expenses and just charges are paid (including individual contributions to the "casualty, medical, and insurance fund," rent of houses, and coal allowances), the balances to be yearly divided amongst the members of the different working companies, in the proportions before stated. Hired or casual labourers, &c., not to be entitled to shares of profits of these companies; but the soveral "working committees" may make gratuaties for good conduct to individuals at pleasure.

The proprietor, or general manager, of the works to solely appoint the "inspectors" of these mining companies, and pay them also; which inspectors to rank as first-class members, and have the same number of shares of annual profits (if not objected to by proprietors or general manager), and the said inspectors may be changed at the pleasure of the ironmaster, or his general manager. By this equitable arrangement, the proprietors of iron works would always know the exact state and condition of each mining company, so as to ensure justice being fairly and promptly administered to all the members thereof, at the same time that the interest of the proprietors of the work are duly attended to and protected.

The members of all working companies, toge

assigned.

In originating a "working company," the ironmaster, or his general manager, to appoint a competent and approved person, or persons, to form, under the conditions stated below, the nucleus, or a full staff of operatives, "inspectors" excepted, as before described; but ever afterwards the several "working committees" to regulate and control all affairs, and admit, fine, or expel members for breach of "rules," &c., by majority of votes. Managers and inspectors to have four votes each; sub-managers, three votes; overseers, two votes; and first hands (members of the committee), one vote each; but in all cases of even votes the decisions to be by lot, fairly drawn.

mittee), one vote each; but in all cases of even votes the decisions to be by lot, fairly drawn.

Working contracts to be for one year only, with one or three months' notice towards the end of each year for a renewal, or the final dissolution, of the several contracts from either party; and the ironmaster, or his general manager, may, as before stated, object to any person becoming a member of any working company, either personally, or as being incompetent to the performance of required duties; such objections, however, not to hold good after a person be once permitted to become a "member," at least during the continuance of any current yearly contract. But any "member" may be expelled for bad or irregular conduct, by the decisions of the several working committees.

With regard to the promotion of individuals, as members of these working companies, it to be thus managed—viz.: apprentices (in which rank all new members to be enrolled, be their age, talent, or experience whatever it may) to become third hands, when found competent for the situation in the opinion of their several working committees; third hands to be elevated into second hands, and afterwards into first hands, on the

ever it may) to become third hands, when found competent for the situation in the opinion of their several working committees; third hands to be elevated into second hands, and afterwards into first hands, on the same conditions; and in all cases the respective individuals to be duly qualified for such promotions. First hands to become overseers, by seniority as a first hand, upon vacancies occurring, provided the parties are duly qualified for such promotion, according to standing "rules" of the company, to be made for that purpose. Overseers to become sub-managers; and these parties to be elevated to the rank of managers, also by seniority, as members of the several companies. By these equitable arrangements, there would be no unfair or partial promotion of individuals from the bottom to the top of the respective staffs, neither would there be any incompetent or improper parties admitted or retained as members of the same—a point of vital importance to the proprietors of ironworks, joint-stock, or otherwise.

Every member of a working company, at its commencement, to angage to leave a certain per centage of their share of profits in the hands of the ironmaster, or some approved banker, in a ratio with their several ranks and clauses, as a guarantee against any extraordinary charges for renovations, &c.; but the several members, upon their retiring or expulsion from

their company, to be entitled to withdraw such deposit at the end of any yearly contract, provided all just debts of the company are paid, and the state and valuation of plant, &c., be satisfactory to the ironmaster, or his general manager; but, after a working company be fully established, all mew members to subscribe, by themselves or friends, to this guarantee fund, in a ratio with their respective ranks and classes, say somewhat thus:—Members of seventh class, 10l.; sixth class, 20l.; fifth class, 30l.; fourth class, 40l.; third class, 60l.; second class, 100l.; and first class, 150l. (more or less), as may be mutually agreed upon between the ironmaster, or his general manager, and the working committee of the several companies.

"As a secondary means of promoting the better management of mines the establishment of a mining school would be of incalculable benefit. The success of similar institutions on the continent has proved their efficiency. In no profession is there greater demand for fertility of resources, quick-ness of adaptation, and general scientific knowledge, than in mining; and yet in no profession, hitherto, has the importance of a suitable education been so little appreciated."—Letter of J. R. Jones, in Mining Journal, Sep. 1.

These "mining companies" would never drive levels, or sink pits, with accurately ascertaining the cost of so doing, and the probable results to cottained; neither would the members of them ever leave minerals be be obtained; neither would the members of them ever leave minerals behind that may be worth working, either on their own account, or on that of the ironmaster, "if the inspector" will only do his duty—a point of great importance not only to the ironmaster, but to the royalty-proprietor and the country at large; for the quantity of both coal and ironstone—that is, under the present system of mining—left unworked, or thrown into the "gob," is incredible; all of which may be considered a complete and total national loss! Every atom of the small coal, nowentirely wasted in Monmouthshire and South Wales, ought to be profitably worked up in the production of pig and bar-iron. By the "new system," colliers and miners would be exempt from many of the evils and miseries they are now constrained to endure (without any particular benefit to their employers), and placed in positions of comparative safety and prosperity; they would, also, be at all times insured the best price for their labour and skill, and enabled to send to daylight every new, strange, or suspicious looking mineral abled to send to daylight every new, strange, or suspicious looking mineral they may meet with, either in sinking or driving, and have its commercial value instantly ascertained. Even on this point the business would have a strong claim upon the attention of the ironmaster, and the proprietors a strong claim upon the attention of the ironmaster, and the proprietors of mineral property; for many deposits of minerals are often passed unheeded in opening and extending of mines, that a comparatively slight scientific examination would show to be of considerable value; in such cases the gain would be a general one—i. e., for the mining companies, the ironmaster, the mine owner, and the public at large. Another important point in the "new system" would be this: the colliers and miners would realise the full and true value of their various results, and have a constant and steady vent for them also—at least, for all minerals really worth having—and the ironmaster, or rather the furnace and other working companies, would be exempt from all impositions and deceptions as to the actual value of required minerals, whether such "deceptions" may be designedly or otherwise attempted; here, however, they would be brought to an immediate and final end, to the great benefit and convenience of ironmasters especially; for, although such "deceptions" are, no doubt, in the majority of cases unintentional, they have cost the proprietors of ironworks countless thousands of pounds in money, and vexations and disappointments, in a manner, without end.

2. Furnaces, Foundry, and Finery Company, to buy coal, ironstone, limestone, &c., from mining company, at fixed prices, according to quality, as before alluded to. Ground fire-clay and brick from brick-yard; wroughtiron, iron cinders, old castings, &c., from mills and forges; and other required materials from a general store, to be opened by the ironmaster, and duly kept supplied for that express purpose; all such things to be sold to the different working companies at the lowest possible cost price, for the reasons before assigned, with respect to shop goods, &c.

The managing staff of this company to be similar in principle to that of the company of miners (inspector excepted, whose services would not be of any particular consequence in this and the following "companies"); with wages, salaries, and shares of profits the same; but, perhaps, it may be desirable, at extensive works, to have three, or more, sub-managers, and other hands to correspond. All repairs and renovations of tools, engines, furnaces, oreas, kins, &c. (all of which things to be first put in proper working order by the ironmaster, and valuation inventories thereof duly taken), to be at the expense of the working company entirely, including smiths' work, fittings, carpentry, engineering, masons' work, halling, &c. Room and roads to spoil banks to be found by ironmaster; but the hauling and depositing of offal to be included in the contract.

All results to have fixed prices put upon them in the yearly working contracts, according to cost, nature, and quality—thus, say

Ditto forge, ... 1 & 2, at - per ton Refined metal, Nos. 1 and 2, at - per ton Ditto forge, ... Castings, Nos. 1, 2, and 3, at - ... Ditto forge, "Castings, Nos. 1, 2, and 3, at - "Other results according to quality. Now, to be able to produce these results at the lowest possible cost, it would be necessary to make the following alterations in the present arrangement of furnaces, &c., either at once, or progressively, as may be most convenient to ironmasters; the working contracts to be calculated accordingly—viz.1. Blast-engines and their boilers, and also hot-air stoves, should be erected on the coke or filling yards, so as to be able to raise steam power, and heat the hot-air pipes from the contracts to be calculated accordingly—viz.1. Blast-engines and their boilers, and also hot-air stoves, should be erected on the coke or filling yards, so as to be able to raise steam power, and heat the hot-air pipes from the spare heat of furnaces; the furnace tops and the blast pipes to be altered accordingly—2. Refineries should be placed in the cast houses, so that the iron from the hearth of the furnaces may be tapped direct into them, and the refinery cinder at the same time greatly improved.—3. At least one melting cupola (and also an air furnace) should be in the foundry department, for making the best use of broken castings, scraps, &c.—4. Ovens built for preparing coke, &c., with stoves, and boilers over the spare heat of them, which would be applicable to many useful purposes.—5. Lime and mine kilns, with rooms and stoves for preparing, drying, and storing furnace mixtures, all ready for use, so as to enable furnace managers to produce whatever furnace results may be desired.—6. 5000 cubical feet of air per minute at command for each blast furnace, and 2500 feet for each refining fire and melting cupola; such air to be at a density of at least 2½ lbs. on the square inch.—7. Each department of the general work to be enclosed, so as to exclude all interlopers, particularly idle scamps and children, who are in general the pioneers of thieves and pifferers.—8. Puddling mills and forges may also be advantageously worked with the spare heat of blast furnaces, provided works were to be built expressly for that purpose.

This working company to deliver, at mutually and annually exceed.

purpose.

This working company to deliver, at mutually and annuany agrees upon prices, whatever quality of pig-iron, or metal, the ironmaster, or the manager of the "mills and forges" company may require. This condition, under the present guess-work system of management, could never be fulfilled; but under the proposed improved arrangements, it may be accomplished at all times, and that without either doubt or difficulty. To fulfilled; but under the proposed improved arrangements, it may be accomplished at all times, and that without either doubt or difficulty. To place the working of blast furnaces under complete control has always been, and is, up to the present moment, considered throughout the trade an impossibility. Under this impression, ironmasters appear content to take things as they come; and, when going over their cast-houses, they look upon a better sow than usual as a sort of God-send. Let me be clearly understood on this point. Now the fault of such a state of things does not rest entirely—and in the majority of cases not even in part—with furnace managers (as many people, prone to jump to hasty conclusions, may imagine); those persons are often expected to turn out good work, with really bad or insufficient materials; in such cases, the ironmaster, or his local or general manager, is alone to blame. Furnace managers (and the managers of all other departments of a large iron work do not hesitate the managers of all other departments of a large iron work do not hesitate the managers of all other departments of a large from work do not hesitate to act in like manner) are, certainly, too much inclined to place the fault of unsatisfactory work in the cast-house, or the foundry, upon either the coke, the mine, the iron cinders, or the limestone, when, in nine cases out of ten, the real fault lies in not properly apportioning those materials in the charges for the furnace. Incompetency and negligence may, certainly, or ten, the real ratio les in not properly apportioning those materials in the charges for the furnace. Incompetency and negligence may, certainly, aggravate the evil; but, so long as the managers of furnaces are restricted in their operations, and thereby prevented from following their own judgment in the proper selection and application of materials (presupposing such persons to be complete masters of their business), so long must iron-masters be content to take things as they may happen to come from the hearths of their blast furnaces.

Colliers, miners, and limestone-getters cannot alter the nature of their several results; but, if furnace managers are to be believed (the coll be-

several results; but, if furnace managers are to be believed (the evil here alluded to is a general one, and, therefore, perzonalities are completely out of the question), the miners, &c., are always sending in bad materials, whenever furnaces happen to get out of order. Under such circumstances it is, therefore, quite evident there must be a fault somewhere; it must be either in the materials, or in the appropriation of them. In this dilemma

the ironmaster has no other safe and sure appeal than to the CHEMIST; for if the fault, the evil, or the difficulty in question should rest in the nature or quality of the raw materials, the chemist is the only person to bring it into day-light, as it were, and give the proper and correct reason why and wherefore; but should the materials be found, on analysis, free from radically injurious elements or combinations, then it will be self-evident and irrefutable, that the fault must be in the manipulations: hence the very great importance to the proprietors of iron-works, the having thoroughly competent persons to manage their several operations, particularly those of a chemical nature. Millions of money have been lost, and thousands of people ruined, from a laxness on this essential point of the iron-making business; and, except very great improvements are made in the management of extensive iron-works of the present day, joint-stock ones in particular, the evils and difficulties alluded to (i. e., want of proper scientific investigations as to the nature and quality of the minerals employed, and the apparatus and processes made use of) will be augmented in a much greater ratio than the mere extension of works and manufactories. By this line of argument we arrive at the conclusion, that unless the persons who take upon themselves, or may be thrust into, as it were, the management of blast furnaces, are fully competent to control all the movements of them (not by mere guess-work, but on scientific and unerring principles), so as to produce at all times whatever results may be desired, they undertake to perform that which may truly be termed an impossibility; and thus, in a certain sense, verify the conclusions of ironmasters, as above mentioned; and, as a natural consequence, immense losses and disappointments must, and will, be continually and unavoidably (not, however, from design, but from the misfortune of incompetency) falling upon the proprietors of works under such management—for instance, with respect to

To realise the important improvements herein proposed, there would certainly be required the aid of many scientific and well-educated men; but this, to the wealthy and spirited ironmasters of Great Britain, can but this, to the wealthy and spirited ironmasters of Great Britain, can but this, to the wealthy and spirited frommasters of Great Britain, can only be a difficulty in relation to time; for as to the expense of rearing up or bringing forward such aid, it would not probably amount to a common charge of six-pence per ton on their make of iron for a period of barely one year. To rear up puddlers, finers, rollers, and many other necessary hands at iron-works, under the present system of management, requires the expenditure of long periods of time and large sums of money, or equivalents for them. Therefore, I see nothing either strange or uncommon in proposing that the managers and operatives, especially those employed in the chemical departments of an iron-work, should be trained up so as to become complete masters of their several pursuits and, consequently, be in proposing that the managers and operatives, especially those employed in the chemical departments of an iron-work, should be trained up so as to become complete masters of their several pursuits, and, consequently, be made able to regulate and control at pleasure whatever chemical processes may be committed to their charge. There would then be a stop very soon put to blast furnaces throwing off a dense black cinder from Monday morning to Sunday night—a cinder often containing from 10 to 12 per cent. of iron. Now there is generally two tons of cinder produced in the smelting of one ton of iron—therefore the actual loss of yield in such cases is at least 20 per cent., or a quantity equal to one-fifth the actual make of iron; and this is a national loss, never again to be recovered, except at a completely ruinous expense. To effectually carry out the proposed new arrangements at extensive iron-works, will require an iron-master to have a very firm hand, and a strong and energetic mind; for, although the alterations in question will in degrees be alike beneficial to the men as to the masters, there would at first, no doubt, be grumblings without end, as well as without reason, throughout every grade of operators, from managers down to the commonest labourer employed about the works; but it is anticipated, that a few months trial of the new principles would convince every person employed, or connected with the reformed or renovated establishment, of the change being one exclusively for the better, not only in a pecuniary point of view, but in a moral and social one also. In conclusion, therefore, I would say that the ironmaster, who may have spirit and nerve enough to effectually carry the improvements in question into operation—improvements based alike upon scientific truths and plain common-sense—will be highly deserving of, and fairly entitled to, one of the highest titles of nobility the Crown could bestow; for these improvements would be the means of benefitting thousands of individuals engaged in the iron m

From the report of a meeting of shareholders of the Asturian Mining ompany, inserted in the Mining Journal of Sept. 1. it appears that after From the report of a meeting of shareholders of the Asturian Mining Company, inserted in the Mining Journal of Sept. 1, it appears that, after an expenditure (including liabilities) of about 200,000h, the chairman stated, "They had only the small blast furnace at present at work, which returned but 10 tons of iron per week," Comment in this case is quite unnecessary, except to observe that the "schoolmaster" has not, at least up to the 1st inst., travelled into the Asturias, however much he may have been at work in Austinfriars. Perhaps the "master" in question is an adept in accounts only, and not in metallurgical operations; if so, then the mystery is solved, and everything becomes quite clear, although perhaps not quite satisfactory. The amount of capital sunk, and lost, in joint-stock iron-works may be reckoned by millions; and this has arisen principally from a notion being entertained by "boards of directors," that a large and heavy money bag would make such concerns prosper in any locality, and under almost any sort of management. Time, however, has shown the idea to be quite an erroneous one. The most extensive and profitable iron-works in this district of country were commenced with comparatively very small capital.—S. B. Rogers: Nantyglo, Sept. 24.

CONSTRUCTION OF TIMBER TRACKS

Sin,-If the following remarks on Messrs. Clarke and Motley's plan of constructing timber tracks over bogs, &c., are considered worthy a place in your instructive Journal, you will do me a favour by inserting them I presume that it is the particular arrangement, or disposition, of the ma-terials in the construction of timber tracks which forms the subject of a I presume that it is the particular arrangement, or disposition, of the materials in the construction of timber tracks which forms the subject of a portion of their patent; and it is probable that they have not confined themselves to the exact mode of construction explained in last week's Mining Journal, or, if they have, I do not think they have hit upon the most favourable adaptation of the material for ensuring strength and durability to the timber track. Mr. Motley proposes to construct the longitudinal beams of two depths of timbers, 6 × 3, and appears to consider that, by breaking the joints and well bolting the pieces together, the beams would be as firm as if they were solid. It is a common practice with builders, in forming beams, to place planks side by side; and many of them contend that beams thus formed are actually stronger than if solid; but I am not aware upon what theory the assumption is based, unless it is that by splitting the bulk, and reversing the planks, the two pieces are not so likely to be cross-grained at opposite points of the rules for determining the strength of materials, I do not recollect ever to have seen them dispose timbers for sustaining weights in the manner Mr. Motley proposes. If (as is the practice with scientific builders to calculate) the relative strength of beams of the same material, of equal length and thickness, is as the square of their respective depths, then the two pieces, 6 in. deep, would be only half so strong as one piece 12 in. deep; and no amount of bolting will, in my estimation, make the beam much, if any, the stronger. Supposing the diameter of the bolts to be one-fourth of the breadth of the beam, or \frac{3}{2} inches and no amount of bolting will, in my estimation, make the beam much, if any, the stronger. Supposing the diameter of the bolts to be one-fourth of the breadth of the beam, or \frac{3}{2} inches and no amount of bolting will, in the material, which, I think, is more than tying the two pieces together would increase their strength; besi

water, and cause rapid decay of the material; and when it was necessary to replace any of the lower pieces of the beam, there would be considerable difficulty in doing so. From these considerations, it appears to me that it would be far better to use solid beams, which, at two-thirds, or three-fourths, of the depth, would be as strong, more durable, and much more easily replaced when required. The dove-tailing of the cross-ties, in the manner and at the point spoken of, would likewise weaken and accelerate the decay of the beam; and if these cross-ties are necessary to be used at all, they would, in my opinion, be better between the piles, which, I think, might with advantage be reduced to 8 × 6, and placed at one-third less distance apart, by which 8-in, beams would be of ample strength for such weights as Mr. Motley proposes to carry over them. In order to give uniformity of strength to the beams, the interval between the piles next the one on which a joint in the beam occurred should not be more than three-fourths of the distance between those piles where no joint occurred; but to adopt this rule would necessitate the making the joints in the two beams opposite each other, which perhaps would be, in some respects, more objectionable than the slight difference in the strength of the beams; but in others it would be advantageous: thus, if the joints in the beams were opposite each other, the track would be more liable to lateral derangement; but, on the other hand, if this evil did not occur, the trains would be less liable to oscillation, which would necessarily be produced by unequal yielding of the rails at opposite points. Knowing Mr. Motley to be a gentleman of a highly liberal turn of mind, any apology for my presuming to suggest what appears to me an improvement (which he is welcome to) in his mode of constructing timber tracks would be superfluous.—J. Weston: Sept. 24.

P.S.—"An Old Condenser," in favourably alluding to my plan of atmospheric propulsion, or what I term a "low-pressure locomotive system

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Rious.—J. Weston: Sept. 24.

P.S.—"An Old Condenser," in favourably alluding to my plan of atmospheric propulsion, or what I term a "low-pressure lecomotive system," in which I can either employ air or steam, is somewhat unintelligible and incorrect in one or two of his remarks. In speaking of the mode in which I propose to increase the power where necessary, he says—"I would fix the pistons (on the acclivities) at shorter intervals, or employ an intermediate valve, or valves, on my travelling traction pipe."—To render this passage intelligible, the "or" should be "and," and the "on," "in." In reference to the power consumed on my plan, he might have stated "that its aggregate expenditure would not be in the slightest degree increased, if the line to be worked consisted of a series of steep gradients, such as I in 30 or 40, beyond what would be necessary for working a perfectly level line; and this I am prepared to demonstrate to any individual capable of understanding the principle and modus operandi of my system, which is not only superior in point of efficiency, but can be laid down at half the expense of any other practical system.

STEAM ON TURNPIKE ROADS.

RESPECTED FRIEND,—I regret that we are not enabled to furnish you with the engraving of our steam-carriage for turnpike-roads for this Journal, as contemplated, but hope not to disappoint your readers next week; in the meantime, I forward an engraving of part of our invention, relating to timber tracks and timber street paving, which I will proceed to describe.

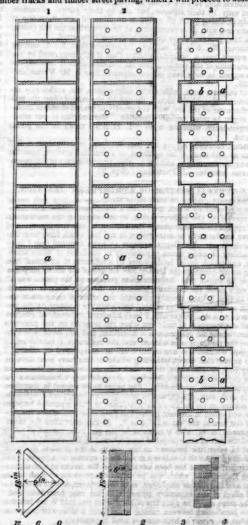


Fig. 1 represents the upper surface of a triangular timber track, showing the mode and form of the vertical grained blocks, which are fixed in a timber trough made of 2 in. plank, so as to have an inner space of 18 in. wide at the top, 9 in. deep in the middle, as shown in the section at the bottom of the engraving.—Fig. 2 represents a track of a parallelogram form, with blocks of vertical grain pinned to the 18 in. by 2 in. plank, as shown in the section at foot.—Fig. 3 represents our mode of improved timber street paving, the blocks are pinned down to the 12 in. plank in manner shown by the longitudinal and vertical section, the form and arrangement of which is calculated to prevent the possibility of the surface sinking into holes or hollows, so objectionable to all kinds of timber and stone paving hitherto in use. With respect to the triangular track, it may be partly filled with timber or other suitable material, and the upper part may be made of the most approved concrete, with fine gravel, flint, or granite,

parting littler on these. With respect to the tanguate and the upper part may be made of the most approved concrete, with fine gravel, flint, or granite, so as to constitute a surface nearly as hard as block granite, and as the timber trough is proposed to be Payuised, so as to render it incalculably durable, the surface may be renewed at comparatively trifling cost.

That these tracks will render steam successful on turnpike-roads, I think, will not be disputed by any competent party; and on roads between large towns, such as Liverpool and Manchester, Bristol and Bath, London and Reading, &c., it would well pay to be at the expense of 1000l, per mile, by which means there cannot be a reasonable doubt of conveying the public at an average speed of 12 miles an hour, at one halfpenny and one penny per mile, and still realise a large profit. Let not railway companies, therefore, think of combining to raise the price of fares; because I think the time is not far distant when they will be obliged to make considerable deductions on their charges, as well as to submit to a large reduction in number of passengers; and that, ere long, the South Devon and Chester and Holyhead will not be the only lines where original shares are nearly valueless through the adoption of the broad gauge, atmospheric tubes, and expensive tubular oridges,

Thomas Mortler, C.E.

Stangate, Lambeth, 9 mo. 27.

COPPER SHEATHING-No. XIII.

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Sen.—Whilst waiting "T. H. S.'s" rotice of the questions on mixture of orce, before advancing to those on calcination, I must not longer leave stacknowledged the two letters of A Roaster Max, and that of Germanton I me to "point out to the smelter the advantages he is to derive" from making good sheathing copper. I may only venture to observe, generally, that it is usually for the interest of the dealer to give satisfaction to his costomers; and especially refer him to the successful rivalry of Muntz's yellow metal, and to the yet more serious growing preference, amongst the northern naval powers, for foreign over British sheathing. It is, cerainly, the shipping interest that I am chiefly endeavouring to serve; but with the earnest desire to make it coincide with that of the smelter, and maintain the superiority of British copper in all parts of the globe. And I may for once explain, that I am no shipower, but a chemist having been much employed by them; that my efforts for this discussion were pontaneous, without the comivance of any shipowner, or other person, to that my present interest in the inquiry is merely scientific; but while glad to reciprocate useful information, not affecting indifference to personal advantage, if such should result from my efforts.

And next of his clear and straightforward replies to the questions on ores.

My question did not exactly relate to ores "free from sulphar," but to those containing "large proportions" of oxides, &c. And it referred to a conversation with the old Mr. Williams, of Scorrier, I think 30 years ago; in which, if I remember right, he said that ores, or along, containing much oxide of copper, were hest treated with mundicy ores, in objection to my suggestion, that they would do well in the blass-furnace. I do not know whether he was then a smelter, but have a substant and muriate, had still a good deal of grey sulphure. But as foreign ores may vary (like our own) in different veins and levels, a list of the foreign ores are free enough from sulphur to come in Sen.—Whilst waiting " T. H. S.'s " notice of the questions on mixture of stions on mixture of

count in 1823.

The use of impurer ores, with fewer calcinations, will sufficiently account for deterioration of the metal; though by accommodating the process to the character of the ore, with our greatly advanced chemical knowledge, this might be most probably rectified. More of this in our subsequent correspondence, when we have "T. H. S.'s" views on the points now before us.

now before us.

GERMANICUS, in following up his branch of our investigation will, I hope, favour us with more of his opinions, as a practical smelter, upon the advantages or disadvantages, and the possible improvements of the operations he has to describe.—J. PRIDRAUX: Sept. 25.

ON THE GENERAL SYSTEM OF ATMOSPHERIC TRACTION.

cions he has to describe.—J. PRIDEAUX: Sept. 25.

ON THE GENERAL SYSTEM OF ATMOSPHERIC TRACTION.

Sir.—The desire evident on the part of Mr. Dage to elicit truth out of the labyrinth of error by which mechanics are still surrounded, and thereby render service to the railway public, by investigating the mechanical principles applicable to atmospheric locomotion, is the moving cause of what follows, explanatory of some points in my last which have been imperfectly understood. Mr. Baggs appears to have assumed that I deny the practicability of using steam expansively to condense or dilate atmospheric air, and which details he disproves by a reference to an actual case of working an air-pump on the Dalkey line for one of the above purposes. In that case he shows that the maximum pressure on the piston was 17 times the work done, the minimum pressure to the same being as 10 to 15. In answer to this, I have already admitted the effect of using steam expansively in raising water from mines; and when the pressure on the piston is reduced in a due proportion, I have admitted its beneficial effect in the reduced consumption of fuel; but when the pressure on the piston is a minimum and the resistance a maximum, as would happen whether the atmospheric air be compressed or dilated, I venture to submit that, notwithstanding whatever may have been done on the Dalkey line, or chewhere, no mechanical combination of matter can render the expansive principle beneficial, or, under any circumstance but that of necessity, even pardonable. The point to be argued is, therefore, whether, in such case, the expansive principle can be applied beneficially.

I have not before me the ample data requisite to draw a parallel between the power and effect in the case given; but I see reason to believe the proportion of the first to the last is full 5 to 1. In this estimation the maximum resistance in the submitted when the pressure on the piston is the greatest, the work done is nothing. As this estimation does not amount to a proof, I will rel

o the shareholders for money paid, or yet accruing to me, would neces-

THE "ORKNEY" ROTARY - ENGINE.

THE "ORKNEY" ROTARY - ENGINE.

SIR,—Perceiving in your Journal of Saturday last that I am described as "merely a partner" in the Orkey rotary-engine, I request the insertion of this letter, that the public may not be misled. Mr. Galloway has parted with his entire interest long since, and has no power to interfere in any way. Further than this, Mr. Galloway left us when the engine was in-ordinate in consumption, the friction very great, and the vibration such, that it would have torn any hoat to pieces. By incessant perseverance for the last 18 months on the part of Mr. Harford, Mr. Bulman, and myself, we have brought the engine into working order, sufficient to satisfy all engineers who have seen it of its value. I am not denying Mr. Galloway his share in the first working of the engine, but when he claims everything, to the exclusion of all others, it is time to interfere; and I will, if necessary, prove to you, in Mr. Galloway's hand-writing, that when a failure it went by my name—when successful, he would have it best his; but I certainly anticipate that you will adopt the good old motto—"Palmam qui meruit ferat." All parties desiring information on the subject may learn where to find it in other parts of your columns.

Maidenhead, Sept, 26.

WRIGHTS STEAM GENERATOR.

WRIGHT'S STEAM GENERATOR.

WRIGHT'S STEAM GENERATOR.

Sir.—I read with much interest, and attached no slight importance to, the several articles which have appeared in your Journal, in detailing experiments with Wright's patent steam generator, but was surprised to find, by the Mechanics' Magazine, No. 1363, p. 276, that a claim is put forward on the part of Mr. W. H. James to the invention. The editor observes, that the real patentee is "the clever son of the clever but sadly ill-required James, to whom, more than any pither man, belongs the merit of having originated the modern railway system (vide Mechanics' Magazine, wol. xiin., pp. 461-500), which cellular generator was patented years ago by Mr. James, and fully described "(vol. xiviii., p. 471). Now, Sir, if such be the case, I can very well understand the letter of your correspondent, Mr. E. Galloway, C.E., which appeared in your Journal of last week, as to the credit being assumed by parties who may have purchased a patent as their own invention, and not giving to the inventor that which is justly his due; while in the present instance it would appear that, not only is the credit taken by another, but also the profit is contemplated which may arise from the application of the patent. The subject will, doubtless, not be lost sight of, having been once mooted; and I suppose Mr. Wright will forthwith either rebut the accusation, or waive his title to the alleged discovery.—An Engineer: Norwich, Sept. 27.

THE SOUTH WALES COAL FIELD.*

THE SOUTH WALES COAL FIELD.*

Notwithstanding the increased application to the sublime science of geology, the deep researches made, and interesting discoveries which have come to light within the past few years, a difference of opinion still prevails among scientific men as to the position and particularities of several stratit, and their bearings towards each other, although not probably in a general view, but as applying to various localities. The object of the author of the work before us appears to be to throw some new light on the configuration and character of the South Wales coal field—one in every respect as important as any of the coal measures of England, and bearing a most intimate relation to that great staple, the iron trade of this country. The preface informs us that, from the reception which the first edition metwith, and the solicitations of friends, the author was induced to publish the one under notice, containing, in addition to the subjects treated of in the former, a demonstration of the subsidences which have taken place between Llynvi and Penllergaer, and which may be applied to all the stratified rocks, from the coal measures down to the granite.

He observes that these extensive dislocations have baffled the most experienced and accomplished, in correctly classifying the beds on one side of these subsidences with those on the other; and it is difficult to find two individuals—geologists or surveyors—who entertain the same opinion on the subject. Mr. Moses has for years entertained the altered opinions which he here expresses, from actual inspections while making extensive surveys, but would not publish them until such views were confirmed by the observation of others; and on the publication of that section of the geological survey of Great Britain, and on applying it to one of them, he found them completely supported. After a description of the ran and extent of the coal basin, the author proceeds to show that, instead of this immense mineral treasury consisting of two curvilinear tro

strong in the sace of millstone grit, and the december of the committing of coal, fronteen of the committee of the committee

IMPROVED MODE OF CASTING.

[Specification of patent granted to D. Henderson, of London Works, Reufrew, Scotland gineer, for improvements in the manufacture of metal castings.—Enrolled Sept. 26.] The invention consists-Firstly, in a new method of manufacturing a

particular class of metal castings—viz.: that in which the whole, or a considerable portion, of the casting is of uniform section, as in the case of pipes, whether straight or curved columns, girders, gutters, ridges, corices, rails, shafts, and other similar castings.

Secondly, in a new method of manufacturing certain descriptions of cirular work, such as pans and basins.

Thirdly, in the production of more than one casting from the same

cular work, such as pans and basins.

Thirdly, in the production of more than one casting from the same imould, when such moulds are made as hereinafter described; and I would remark, that my invention is particularly applicable to the manufacture of castings of iron, but may also be used for other metals.

The principal part of the casting-box is made in two parts, divided lengthwise, and, when joined, is cylindrical, except where required to be swelled out for the socket, or for flanges, or other projections; and thus a uniform thickness of sand, or as nearly so as may be, is employed throughout the entire mould. The parts of the box have a number of small holes through them, to allow the gases to escape from the mould when the melted metal is poured in. I call this form of box a close mould-box, to distinguish it from the ordinary boxes, which are open at the back, and are rammed from the back. In this close mould-box the back affords a firm support to the sand, or loam, but admits of the escape of air and gas. The meeting edges are made flat by planing, or filing, so as to fit quite close, and are carried inwards, until the width between them is equal to the diameter of the pattern, forming lips, which are made thin at the edge, so as to present a small surface to the action of the metal during the operation of casting, these edges, or lips, being made to follow the external form of the pipe throughout; but, as shall be afterwards shown, it is not always necessary to allow the metal to come in actual contact with these lips, but in some cases they are made to admit of a portion of sand between them and the casting. The lower end of the box is fitted to receive a separate circular box, which closes in, and completes the upper part of the mould, and forms the gate-box, in which a basin and passages for the metal are formed in sand, and by which the metal is introduced to the mould. In preparing the mould, two pieces of pattern are required—one for the socket, and another for the body, or straight portion of t

patiern of the body is then appeared, setters use and is rammed in as before; the patiern is then slid a short distance along the box, and again rammed up behind, and so on until the entire box is filled. If a bead he required at the upper, or spigot, end of the pipe, the box is made so that one-half at the upper, or spigot, end of the pipe, the box is made so that one-half at the upper and of the patiern may be man with a bead in the presence of the other for the lower part of the bead on the pipe. The upper part of the bead is readily moulded in the gate-box on a separate beard, generally called an odd-side board, or laying down board, as is well understood. The core may be formed by any of the usual methods, with a plate ab bottom, which fits the mould-box and keeps the core exactly contral in the mould, this slate is overed with loans, and serves to close the bottom of the mould. In large pipes this is sufficient for adjusting the core in the mould at top on the core of the core of the core of the core of the mould. As an additional means of adjusting the two parts of the mould-box, the core is thereby adjusted, and held securely in the centre of the mould-box, guide pina may be applied. The different parts of the mould-box, guide pina may be applied. The different parts of the mould-box, guide pina may be applied. The different parts of the mould-box, guide pina may be applied. The different parts of the mould-box guide pina may be applied. The different parts of the mould-box guide pina may be applied. The different parts of the box and core are dried; but the gate-box may be prepared with ordinary green sand. When the mould is formed of green sand it does not require drying. It is not necessary that the self-box are proved to the core of the cor

yet enough heat in the mould to dry it thoroughly. A fresh core, if the mould be for a pipe, is then set down, and the mould-box closed round it, and the casting proceeded with as before.

Having described the nature of my invention, and the manner in which the same is to be performed, I wish it to be understood that I am aware that short moveable patterns have already been used for making moulds for casting; and, therefore, I do not claim the use of such patterns, except as hereinafter mentioned; but I claim as improvements in the manufacture of metal castings:—

eept as hereinafter mentioned; but I claim as improvements in the manufacture of metal castings:—

Eirstly, the manufacture of pipes, columns, girders, gutters, ridges, cornices, rails, shafts, and other similar castings in moulds formed by means of a short-part pattern guided by the mould-box, or by a guide attached thereto, and moved gradually along during the process of ramming or filling the mould-box, as above described.

Secondly, the manufacture of pipes, columns, girders, gutters, ridges, cornices, rails, shafts, and other similar castings, by means of moulds formed in close mould-boxes, with lips fitted to the form of the article to be cast, as above described.

as above described.

Thirdly, the manufacture of pipes, columns, girders, gutters, ridges, ecrnices, rails, shafts, and other similar castings in moulds formed in close mould-boxes, with lips fitting to the form of the article to be cast, such moulds being formed by means of short-part patterns, guided by the boxes, or by guides attached thereto, as above described.

Fourthly, the manufacture of pans, basins, and similar circular ca stings in moulds formed in close mould-boxes, with lips fitted to the form of the article to be cast, when such moulds are formed by means of a moveable part pattern, as above described.

Fitthly, the use of moulds formed, as described in my first, second, third, and fourth claims for making two or more castings in succession, without destroying the whole of the mould, as above described.

Paint-office and Design Registry, 210, Strand, Sept 28.

ROYAL CORNWALL POLYTECHNIC SOCIETY.

ROYAL CORNWALL POLYTECHNIC SOCIETY.

The seventeenth annual exhibition of this society commenced in the beautiful hall of the Polytechnic Society, Falmouth, on Tuesday, when there was a numerous attendance, among whom were Sir Charles Lemon, Bart, M.P. (the president of the society), J. S. Trelawny, Esq. M.P., Sir W. Snow Harris, the Rev. C. Rogers, Rev. T. Philipotts, Rev. J. Paunett, Messrs. R. W. Fox, Charles Fox, Josiah Fox, George Croker Fox, M. Williams, N. Kendall, Richard Taylor, C. B. G. Sawle, Dr. Carlyon, Mr. G. St. Aubyn, and many of the county gentry. The exhibition was not so large as on some former occasions, still the principle of the control The seventeenth annual exhibition of this society commenced in the beau tiful hall of the Polytechnic Society, Falmouth, on Tuesday, when there was

Mr. Frank Howard afterwards gave a lecture at the Polytechnic Hall, or the Fine Arts. The audience, which was numerous, were greatly interested in Mr. Howard's popular explanations.

Mr. Howard's popular explanations.

The second day (Wednesday) of the society's exhibition was quite as fully attended as the previous meeting. In the course of the morning several features of great interest had been added to the works on the tables. Amongst these was a remarkably beautiful bust of J. C. Adams, Esq., Astronomer Royal, the discoverer of the planet Neptune, a production of Burnard's chisel. There was also a model of the Lander column, at Truro, with a copy of the figure proposed to be placed at the top of it, and which had also been entrusted to the care of Burnard, in whose good mate the society have the most perfect confidence. There were several other busts added to the collection already in the room, which came down from town along with the articles already severed to. The inventions and improvements exhibited in the mechanical delaction, who take a lively interest in every addition to their branch of mechanical science. The chair having been taken by Sir Charles Lemon, Bart, the successful exhibitors in article, manifesting mechanical skill then described the immovagues and which these careful articles manifesting mechanical skill then described the immovagues and which these careful articles manifesting mechanical skill then described the immovagues which these

The chair having been taken by Sir Charles Lemon, Bart, the contents which they contricted manifesting mechanical skill then described the improvements which they contidered beir inventions to possess. These explanations, and the discussions consequent mon them occupied userly three hours.

Mr. Bardary Fox read a long but very interesting paper, written by Mr. Edwin O. Traudies, C. E., comparing the relative morits of wood and iron for shipbilding. The writer of this paper maintained the advantages of iron for ships in every respect, especially as to cost obconstruction and of repairs, of speed, of power of stowage, and, indeed, in every quality which a shipbuilder looks upon as essential, and a shippower deems of value. Mr. Tregelleb and forward the proposition, that the use of iron for the building of ear ships for our merchatile marine, will enable us to keep that maritime supremsey which some persons are arried will be lost by the abolition of the Navigation Laws.

Mr. W. RUNDELL (the courtery) called attention to a diagram, showing the amount of honey daily treasured up in a hive of bees, and which was self-registering. Mr. Rundell stated that the author of had made himself so familiar with his bees, and was so well known by them, that he colled put his hand isto the hive at any time, and the boes would settle on his hand without singing him.

Mr. Barchat Fox read a paper flow Mr. John Allen, of Liskeard, on the best means a supplying the poor in times of dephension. Mr. Allen stated the plans which had been corred to at different times, in order to employ the poor, and recommended, in times the provents of a sungral utility.

In the evening Mr. Frank Howard gave a second lecture; the subject, on Composituatrated by a sketch from the "Talisman," which had been given him by Sir C. Le [We shall give detailed particulars of some of the more important subjects in our s

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BANWEN IRON COMPANY.

this company, previous to his announcing the name of the party ne had chosen as orficial manager.

Mr. White, a holder of 35 shares in the company, was represented by Mr. Vallance,
solicitor, who stated that he was now in a position to offer a suggestion, which, if acceeded
to by those gentlemen who represented the legal esiste of this company, would render
any further proceedings before the Master unnecessary. He believed that nearly all the
parties connected with the undertaking were agreed that it would be a sumen more advisable and Judicious course to take such steps as would render the winding up of the
company tumercussary, although the Vice-Chanceller had isseed his order for that proceeding, and there were no fewer than five candidates for the appointment of official
manager. Now, what he had to suggest was this—he believed the divessers, in connection with some of the shareholders, had in contemplation an arrangement, by which the
affairs of the company would be placed in a satisfactory position, and which would render
a wind-up unnecessary. What he had, therefore, to suggest was, that the Master would
now further adjourn the question of the appointment of the official manager for some
time longer—say, the lat of November.

The Marrar said it must be quite obvious that that would be the most judicious and
wisest course to pursue.

The Mayrea said it must be quite obvious that that would be the most judicious and wisest course to pursue.

Mr. Hasan, the secretary to the company, said he represented Mr. Browne, and Mr. Bristoe, and, he had no doubt that these goalleman would accede to the propesal of Mr. Valiance. At that moment there were only two other shareholders represented in the room, besides Mr. White, and those goalleman had no objection to that course being adopted.

Mr. Vallance heiged to remind the Master that the deed contained a clause of forfeiture, and, therefore, if the adjournment to the ist November about be agreed to, if must be without prejudice to the shareholders in respect of that clause, which otherwise would come into operation on the 20th.

Mr. Hasas said, or course that should be understood. Both Mr. Brown and Mr. Bristoe considered it would be most desirable to adopt the course suggested by Mr. Vallance.

The Mastrax and the deed required certain acts to be done before the clause of forfeiture should come into operation. Now, it was quite clear that these acts could not be done before that time, which was the 29th of this month; it was utterly impossible that they could be done by that time, and, therefore, under these circumstances, he would again say that a more prudent and judicious course could not be followed them the adjournment suggested by Mr. Vallance; and, as all the other parties present appeared to be of the same opinion, he would now adjourn the appointment of the official manager, to Friday, the 2d November.—Adjourned accordingly.

COMPANY OF COPPER MINERS IN ENGLAND .- The committee of adjudic COMPANY OF COPPER MINERS IN ENGLAND.—The committee of adjudication have so far progressed in their labours, that they are in hopes, prior to
the 1st of November, of laying before the general body of the various interests
a definite plan for the resuscitation of the company. Considerably more than
half of the debenture and shareholders have expressed their willingness to
agree to the propositions which have been mooted by the committee; and
there is every prospect that the company will again have the entire management of their property. Several influential persons connected with the iron
trade have expressed great dissatisfaction at the management of the Copper
Miners' Company by the Bank of England—such being an infringement of
their Charter, which stringently precludes them from being a trading company.

their Charter, which stringently precludes them from being a trading company.

VAN DIEMEN'S LAND AGRICULTURAL COMPANY.—A large shareholder in this company writes a complaining letter, that he is called upon to pay more money upon his shares, when, after being constituted more than a quarter of a century, and expending upwards of 250,000. sterling, the company has paid no dividend, excepting one of a very trifling amount some years ago. He adds his testimony, that many of the proprietors are ruined by the mismanagement, and urges that the company should be wound up by means of a lottery, or a tontine. If the proprietors are ruined by the mismanagement, and they must be neglectful of their own interests if they do not use the power they possess. With regard to the disposal of the large territory which the company has secured to them by Royal Charter, it might be disposed of by lottery, or tontine, to the advantage of all parties, provided the time be made short enough to allow present subscribers to come into possession; or it might be divided into lots, and disposed of by lottery, in the same way as the properties of the Bank of Australia, and those of Mr. Wentworth in Sydney; this latter plan might be attractive to emigrants, and worthy the consideration of the suffering shareholders, who are auxious to get out of their unp rofitable shares.—Chronicle.

Mexent. Wenter of Australia.—The following is a curious account from

MIMERAL WEALTH OF AMERICA.—The following is a curious account from Richmond, Virginia, concerning the alleged richness of the "placers" there. The writer observes, "You will remember the specimen of white quartz, with gold interspersed, found on Mr. Elisha Thurmond's land, in Nelson county, and noticed by the editors a few months since. I send you now much more remarkable and interesting specimens, found at or near the same place. The large piece contains 122 dwts. 8 grains, one 35 dwts, the other 34 dwts.—all pure, fine gold, worth 100 cents, or nearly, per dwt. These three pieces were picked up by the hands engaged in washing for surface gold, beside numerous others, varying in size from 3 to 15 dwts. I also send you a bar, containing 145 dwts., procured by washing on a tract of land lying immediately adjacent. The truth is, that this particular locality, or "placer" (as it is termed in California), is hardly surpassed, even there. One day, the past week, four hands found 163 dwts., worth \$160; and, it is said, some \$30,000 or \$40,000, at different times, have been obtained at comparatively little or no expense. A valuable lead mine has also been discovered in the immediate vicinity, and I learn they are raising a large quantity of ore, yielding 80 per cent. of lead, and four dollars of silver, to the 100 pounds.

ACCIDENTS.

Cunnock, Ayrahire.—J. Miller and W. Hastings were suffocated by choke-cam employed with others in drawing the pumps out of a pit at the Garalian Colliery. Wolverhampton.—W. Firmstone and A. Davis were killed by an explosion in a at Shut End.—H. Bird was also severely injured from the same accident.

Bilston.—As a skip was descending one of the pits, in Messrs. Bagnall's field, with 11 sen in it, by some mishap it struck against the side of the shaft, and five of them were ception—that of M. Flynn—not so seriously, as to render y injured, but with a single exception—that of M. Flynn—not so seriously, as to render recovery doubtfal. Had the apparatus of Messra. Fourdrinier been applied, no such fatal result could have arisen, or even the application of the guide rods used in the north would have precluded it.—H. Morris was killed by a fall of coal in a pit at Bunker's Hill.

Liantidoes.—As E. Mantle was engaged faeding a mill.

even the application of the guide rods used in the norm would neve presented in Morris was killed by a fail of coal in a pit at Bunker's Hill.

Rainfides.—As E. Mantie was engaged feeding a mill connected with the Gorn Mines, it being part of his duty to occasionally oil a certain part of the mill wheel, and, whilst so engaged, his smock freck became entangled in the cogs of the wheel. On mining himself fast, he immediately called to a boy who had been working with him to run and turn off the water which propelled the wheel. The poor follow's exclamation was. "Turn the water off, or I shall be dead in a minute." The order was promptly obeyed, but not until the convolutions of the wheel had so far mutilated his body as to cause instant death. The practice of cling a mill whilst in motion, where there is any danger attending it, was highly censured by the coroner; but it appeared that in this case, if common caution had been observed, such a frightful occurrence might have been avoided.

Wedseebury.—A miner employed at one of the pits. In this neighbourhood was killed by the skip falling upon him.

Workstanton, near Bursten.—Levé Anderson, while employed in cutting a "crat" from Molecanica, near the High Carr, having set the

CTEAM TO INDIA AND CHINA, VIA EGYPT.—Regul MONTHLY MAIL (steam conveyance) for PASSENGERS and LIGHT GOO'EVILON, MADRAS, CALCUTTA, PENANG, SINGAPORE, and HONG-EORG THE PENINSULAR AND ORIENTAL STEAM NAVIGATION COMPANY

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